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SUCH DAMAGES.

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state the exclusion of warranty; and each file should have at least
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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

# Test code for the vcenter license module.
# Copyright: (c) 2017, Dag Wieers <dag@wieers.com>
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

- name: Store the vCenter container IP
  set_fact:
    vcenter_host: "{{ lookup('env', 'vcenter_host') }}"

- debug:
  var: vcenter_host

- name: Wait for vcsim controller to come online {{ vcenter_host }}
  wait_for:
    host: "{{ vcenter_host }}"
    port: 5000
    state: started

- name: Kill vcsim
  uri:
    url: http://{{ vcenter_host }}:5000/killall

- name: Start vcsim
  uri:
    url: http://{{ vcenter_host }}:5000/spawn?cluster=2
    register: vcsim_instance

- name: Wait for vcsim server to come up online {{ vcenter_host }}
  wait_for:
    host: "{{ vcenter_host }}"
port: 443
state: started

- debug:
  var: vcsim_instance

# FIXME: ServerFaultCode: LicenseManager:LicenseManager does not implement: AddLicense
#- name: Add a vCenter evaluation license
  vcenter_license:
    # hostname: ['{{ vcenter_host }}']
    # username: ['{{ vcsim_instance["json"]\["username"] }}']
    # password: ['{{ vcsim_instance["json"]\["password"] }}']
    # validate_certs: no
    # license: 00000-00000-00000-00000-00000
    # state: present

#- name: Remove an (unused) vCenter evaluation license
  vcenter_license:
    # hostname: ['{{ vcenter_host }}']
    # username: ['{{ vcsim_instance["json"]\["username"] }}']
    # password: ['{{ vcsim_instance["json"]\["password"] }}']
    # validate_certs: no
    # license: 00000-00000-00000-00000-00000
    # state: absent

#- name: Add an invalid vCenter license
  vcenter_license:
    # hostname: ['{{ vcenter_host }}']
    # username: ['{{ vcsim_instance["json"]\["username"] }}']
    # password: ['{{ vcsim_instance["json"]\["password"] }}']
    # validate_certs: no
    # license: 00000-00000-00000-00000-00001
    # state: present
    # ignore_errors: yes

shippable/vcenter/group1
cloud/vcenter

# -*- coding: utf-8 -*-
#
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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
from ansible.module_utils.basic import AnsibleModule

try:
    from library.modules.bigiq_utility_license_assignment import ApiParameters
    from library.modules.bigiq_utility_license_assignment import ModuleParameters
    from library.modules.bigiq_utility_license_assignment import ModuleManager
    from library.modules.bigiq_utility_license_assignment import ArgumentSpec
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.module_utils import set_module_args
except ImportError:
    try:
        from ansible.modules.network.f5.bigiq_utility_license_assignment import ApiParameters
        from ansible.modules.network.f5.bigiq_utility_license_assignment import ModuleParameters
        from ansible.modules.network.f5.bigiq_utility_license_assignment import ModuleManager
        from ansible.modules.network.f5.bigiq_utility_license_assignment import ArgumentSpec
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.module_utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}

def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = json.loads(f.read())
    try:
        data = json.loads(data)
    except Exception:
        pass

    fixture_data[path] = data

    return data

def path_arg(name):
    path = os.path.join(name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = json.loads(f.read())
    try:
        data = json.loads(data)
    except:pass

    fixture_data[path] = data
    return data
fixture_data[path] = data
return data

class TestParameters(unittest.TestCase):
    def test_module_parameters_unmanaged(self):
        args = dict(
            offering='asdf',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            managed=False,
            device_username='admin',
            device_password='secret',
            device_port='8443'
        )

        p = ModuleParameters(params=args)
        assert p.offering == 'asdf'
        assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
        assert p.device == '1.1.1.1'
        assert p.managed is False
        assert p.device_username == 'admin'
        assert p.device_password == 'secret'
        assert p.device_port == 8443

    def test_module_parameters_managed(self):
        args = dict(
            offering='asdf',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            managed=True,
        )

        p = ModuleParameters(params=args)
        assert p.offering == 'asdf'
        assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
        assert p.device == '1.1.1.1'
        assert p.managed is True

class TestManager(unittest.TestCase):

    def setUp(self):
        self.spec = ArgumentSpec()

    def test_create(self, *args):
        set_module_args(dict(
            offering='asdf',
        ))
key='XXXX-XXXX-XXXX-XXXX-XXXX',
device='1.1.1.1',
device_username='admin',
device_password='secret',
managed='no',
state='present',
password='password',
server='localhost',
user='admin')
}

module = AnsibleModule(
    argument_spec=self.spec.argument_spec,
supports_check_mode=self.spec.supports_check_mode,
required_if=self.spec.required_if
)

mm = ModuleManager(module=module)

# Override methods to force specific logic in the module to happen
mm.exists = Mock(side_effect=[False, True])
mm.create_on_device = Mock(return_value=True)
mm.wait_for_device_to_be_licensed = Mock(return_value=True)

results = mm.exec_module()

assert results['changed'] is True

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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
from ansible.module_utils.basic import AnsibleModule
try:
    from library.modules.bigiq_regkey_license_assignment import ApiParameters
    from library.modules.bigiq_regkey_license_assignment import ModuleParameters
    from library.modules.bigiq_regkey_license_assignment import ModuleManager
    from library.modules.bigiq_regkey_license_assignment import ArgumentSpec
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        from ansible.modules.network.f5.bigiq_regkey_license_assignment import ApiParameters
        from ansible.modules.network.f5.bigiq_regkey_license_assignment import ModuleParameters
        from ansible.modules.network.f5.bigiq_regkey_license_assignment import ModuleManager
        from ansible.modules.network.f5.bigiq_regkey_license_assignment import ArgumentSpec
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.modules.utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}

def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = f.read()
        try:
            data = json.loads(data)
        except Exception:
            pass
        fixture_data[path] = data
    return data

class TestParameters(unittest.TestCase):
    def test_module_parameters_unmanaged(self):
        args = dict(
            pool='foo-pool',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            )
managed=False,
device_username='admin',
device_password='secret',
device_port='8443'
)

p = ModuleParameters(params=args)
assert p.pool == 'foo-pool'
assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
assert p.device == '1.1.1.1'
assert p.managed is False
assert p.device_username == 'admin'
assert p.device_password == 'secret'
assert p.device_port == 8443

def test_module_parameters_managed(self):
    args = dict(
        pool='foo-pool',
        key='XXXX-XXXX-XXXX-XXXX-XXXX',
        device='1.1.1.1',
        managed=True,
    )
    p = ModuleParameters(params=args)
    assert p.pool == 'foo-pool'
    assert p.key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
    assert p.device == '1.1.1.1'
    assert p.managed is True

class TestManager(unittest.TestCase):
    def setUp(self):
        self.spec = ArgumentSpec()

    def test_create(self, *args):
        set_module_args(dict(
            pool='foo-pool',
            key='XXXX-XXXX-XXXX-XXXX-XXXX',
            device='1.1.1.1',
            device_username='admin',
            device_password='secret',
            managed='no',
            state='present',
            password='password',
            server='localhost',
            user='admin'
        ))
module = AnsibleModule(
    argument_spec=self.spec.argument_spec,
    supports_check_mode=self.spec.supports_check_mode,
    required_if=self.spec.required_if
)
mm = ModuleManager(module=module)

# Override methods to force specific logic in the module to happen
mm.exists = Mock(side_effect=[False, True])
mm.create_on_device = Mock(return_value=True)
mm.wait_for_device_to_be_licensed = Mock(return_value=True)

results = mm.exec_module()

assert results['changed'] is True

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#
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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")
from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
from ansible.module_utils.basic import AnsibleModule
try:
    from library.modules.bigiq_utility_license import ModuleParameters
    from library.modules.bigiq_utility_license import ModuleManager
    from library.modules.bigiq_utility_license import ArgumentSpec
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        from ansible.modules.network.f5.bigiq_utility_license import ModuleParameters
from ansible.modules.network.f5.bigiq_utility_license import ModuleManager
from ansible.modules.network.f5.bigiq_utility_license import ArgumentSpec
from ansible.module_utils.network.f5.common import F5ModuleError
from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
from units.modules.utils import set_module_args
except ImportError:
    raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}

def load_fixure(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]

    with open(path) as f:
        data = f.read()

    try:
        data = json.loads(data)
    except Exception:
        pass
    fixture_data[path] = data
    return data

class TestParameters(unittest.TestCase):
    def test_module_parameters(self):
        args = dict(
            license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
            accept_eula=True,
        )
        p = ModuleParameters(params=args)
        assert p.license_key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
        assert p.accept_eula is True

class TestManager(unittest.TestCase):

    def setUp(self):
        self.spec = ArgumentSpec()
        self.patcher1 = patch('time.sleep')
        self.patcher1.start()
def tearDown(self):
    self.patcher1.stop()

def test_create(self, *args):
    set_module_args(dict(
        license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
        accept_eula=True,
        password='password',
        server='localhost',
        user='admin'
    ))

    module = AnsibleModule(
        argument_spec=self.spec.argument_spec,
        supports_check_mode=self.spec.supports_check_mode
    )

    mm = ModuleManager(module=module)

    # Override methods to force specific logic in the module to happen
    mm.exists = Mock(side_effect=[False, True])
    mm.create_on_device = Mock(return_value=True)
    mm.wait_for_initial_license_activation = Mock(return_value=True)
    mm.wait_for_utility_license_activation = Mock(return_value=True)

    results = mm.exec_module()

    assert results['changed'] is True

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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type
import os
import json
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python \geq 2.7")

from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
from ansible.module_utils.basic import AnsibleModule
try:
    from library.modules.bigip_device_license import ApiParameters
    from library.modules.bigip_device_license import ModuleParameters
    from library.modules.bigip_device_license import ModuleManager
    from library.modules.bigip_device_license import ArgumentSpec
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        from ansible.modules.network.f5.bigip_device_license import ApiParameters
        from ansible.modules.network.f5.bigip_device_license import ModuleParameters
        from ansible.modules.network.f5.bigip_device_license import ModuleManager
        from ansible.modules.network.f5.bigip_device_license import ArgumentSpec
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.modules.utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}
def load_fixture(name):
    path = os.path.join(fixture_path, name)
    if path in fixture_data:
        return fixture_data[path]
    with open(path) as f:
        data = f.read()
    try:
        data = json.loads(data)
    except Exception:
        pass
    fixture_data[path] = data
    return data

class TestParameters(unittest.TestCase):
    def test_module_parameters(self):
        args = dict(
            license_key='xxxx-yyyy-zzzz',
            license_server='foo-license.f5.com',
        )
accept_eula=True

p = ModuleParameters(params=args)
assert p.license_key == 'xxxx-yyyy-zzzz'
assert p.license_server == 'foo-license.f5.com'
assert p.accept_eula is True

class TestModuleManager(unittest.TestCase):
    def setUp(self):
        self.spec = ArgumentSpec()
        self.patcher1 = patch('time.sleep')
        self.patcher1.start()

    def tearDown(self):
        self.patcher1.stop()

    def test_create(self, *args):
        set_module_args(
            dict(
                license_key='xxxx-yyyy-zzzz',
                license_server='foo-license.f5.com',
                accept_eula=True,
                server='localhost',
                user='admin',
                password='password'
            )
        )

        module = AnsibleModule(
            argument_spec=self.spec.argument_spec,
            supports_check_mode=self.spec.supports_check_mode
        )
        mm = ModuleManager(module=module)

        # Override methods to force specific logic in the module to happen
        mm.exists = Mock(side_effect=[False, True])
        mm.read_dossier_from_device = Mock(return_value=True)
        mm.generate_license_from_remote = Mock(return_value=True)
        mm.upload_license_to_device = Mock(return_value=True)
        mm.upload_eula_to_device = Mock(return_value=True)
        mm.reload_license = Mock(return_value=True)
        mm._is_mcpd_ready_on_device = Mock(return_value=True)

        results = mm.exec_module()
        assert results['changed'] is True
# -*- coding: utf-8 -*-

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from __future__ import (absolute_import, division, print_function)
__metaclass__ = type

import os
import json
import pytest
import sys
from nose.plugins.skip import SkipTest
if sys.version_info < (2, 7):
    raise SkipTest("F5 Ansible modules require Python >= 2.7")
from ansible.compat.tests import unittest
from ansible.compat.tests.mock import Mock
from ansible.compat.tests.mock import patch
from ansible.module_utils.basic import AnsibleModule
try:
    from library.modules.bigiq_regkey_license import ModuleParameters
    from library.modules.bigiq_regkey_license import ApiParameters
    from library.modules.bigiq_regkey_license import ModuleManager
    from library.modules.bigiq_regkey_license import ArgumentSpec
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    from test.unit.modules.utils import set_module_args
except ImportError:
    try:
        from ansible.modules.network.f5.bigiq_regkey_license import ModuleParameters
        from ansible.modules.network.f5.bigiq_regkey_license import ApiParameters
        from ansible.modules.network.f5.bigiq_regkey_license import ModuleManager
        from ansible.modules.network.f5.bigiq_regkey_license import ArgumentSpec
        from ansible.module_utils.network.f5.common import F5ModuleError
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from units.modules.utils import set_module_args
    except ImportError:
        raise SkipTest("F5 Ansible modules require the f5-sdk Python library")

fixture_path = os.path.join(os.path.dirname(__file__), 'fixtures')
fixture_data = {}
def load_fixture(name):
    path = os.path.join(fixture_path, name)
if path in fixture_data:
    return fixture_data[path]

with open(path) as f:
    data = f.read()

try:
    data = json.loads(data)
except Exception:
    pass

fixture_data[path] = data
return data

class TestParameters(unittest.TestCase):
    def test_module_parameters(self):
        args = dict(
            regkey_pool='foo',
            license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
            accept_eula=True,
            description='this is a description'
        )

        p = ModuleParameters(params=args)
        assert p.regkey_pool == 'foo'
        assert p.license_key == 'XXXX-XXXX-XXXX-XXXX-XXXX'
        assert p.accept_eula is True
        assert p.description == 'this is a description'

    def test_api_parameters(self):
        args = load_fixture('load_regkey_license_key.json')

        p = ApiParameters(params=args)
        assert p.description == 'foo bar baz'

class TestManager(unittest.TestCase):
    def setUp(self):
        self.spec = ArgumentSpec()
        self.patcher1 = patch('time.sleep')
        self.patcher1.start()

    def tearDown(self):
        self.patcher1.stop()
def test_create(self, *args):
    set_module_args(dict(
        regkey_pool='foo',
        license_key='XXXX-XXXX-XXXX-XXXX-XXXX',
        accept_eula=True,
        description='this is a description',
        password='password',
        server='localhost',
        user='admin'
    ))

    module = AnsibleModule(
        argument_spec=self.spec.argument_spec,
        supports_check_mode=self.spec.supports_check_mode
    )
    mm = ModuleManager(module=module)

    # Override methods to force specific logic in the module to happen
    mm.exists = Mock(side_effect=[False, True])
    mm.create_on_device = Mock(return_value=True)

    results = mm.exec_module()

    assert results['changed'] is True
    assert results['description'] == 'this is a description'

    {  
        "description": "this is a description",
        "generation": 2,
        "id": "452f8628-1e56-4b4d-946c-0e68f5780aa1",
        "kind": "cm:device:licensing:pool:regkey:licenses:regkeypoollicensestate",
        "lastUpdateMicros": 1513371645532221,
        "name": "asd",
        "selfLink": "https://localhost/mgmt/cm/device/licensing/pool/regkey/licenses/452f8628-1e56-4b4d-946c-0e68f5780aa1",
        "sortName": "Registration Key Pool"
    }

    {  
        "description": "foo bar baz",
        "dossier": "5d54d976",
        "encryptedPrivateKey": [
            27,
            -10,
            12,
            58,
            75
        ],
        "generation": 2,
        "internalPrivateKey": "sKpXEU7"
"lastUpdateMicros": 1513107721123304,
"licenseState": {
  "vendor": "F5 Networks, Inc.",
  "licensedDateTime": "2017-12-12T00:00:00-08:00",
  "licensedVersion": "5.3.0",
  "evaluationStartDateTime": "2017-12-11T00:00:00-08:00",
  "evaluationEndDateTime": "2018-01-12T00:00:00-08:00",
  "licenseEndDateTime": "2018-01-12T00:00:00-08:00",
  "licenseStartDateTime": "2017-12-11T00:00:00-08:00",
  "registrationKey": "XXXX-XXXX-XXXX-XXXX-XXXX",
  "dossier": "1a44262799bc",
  "authorization": "03fc41d1e8666",
  "usage": "F5 Internal Product Development",
  "platformId": "Z100",
  "authVers": "5b",
  "serviceCheckDateTime": "2017-12-12T00:00:00-08:00",
  "serviceStatus": "As of 2017-12-12 there is no active service contract. This may inhibit your ability to upgrade your software.",
  "exclusivePlatform": ["Z100",
    "Z100A",
    "Z100AzureCloud",
    "Z100GoogleCloud",
    "Z100K",
    "Z100x",
    "Z100H"
  ],
  "activeModules": ["APM, Max, VE (2500 CCU, 10000 Access Sessions)|P961057-1761515|Anti-Virus Checks",
    "LTM, 10 Gbps. VE|T487107-2453693|, VE|DNSSEC",
    "PEM, VE|X895364-1851682"
  ],
  "optionalModules": ["APM, Base, VE (50 CCU / 200 AS)",
    "App Mode (TMSH Only, No Root/Bash)",
    "Concurrent Users",
    "Concurrent Users and Access Sessions, VE",
    "FIPS 140-2 Level 1, BIG-IP VE-1G to 10G",
    "IP Intelligence, 1Yr, VE",
    "IP Intelligence, 1Yr, VE-10G",
    "IP Intelligence, 3Yr, VE-10G",
    "LTM to Better Bundle Upgrade, 10Gbps",
    "PEM URL Filtering, 1Yr, HIGH PERF",
    "PEM URL Filtering, 3Yr, HIGH PERF",
    "Routing Bundle",
    "Secure Web Gateway, 1Yr, VE",
    "URL Filtering, 1Yr, VE"
"moduleEvaluations": [
  {
    "moduleName": "IP Intelligence, 3Yr, VE|SUBSCRIPTION",
    "endDate": "soon"
  },
  {
    "moduleName": "Secure Web Gateway, 3Yr, VE|SUBSCRIPTION",
    "endDate": "soon"
  },
  {
    "moduleName": "URL Filtering, 3Yr, VE|SUBSCRIPTION",
    "endDate": "soon"
  }
],
"featureFlags": [
  {
    "featureName": "gtm_rate_limit",
    "featureValue": "12345"
  }
],
"generation": 0,
"lastUpdateMicros": 0,
"licenseText": "#Auth vers : BIG-IQ Product License File#",
"message": "License XXXX-XXXX-XXXX-XXXX-XXXX ready",
"name": "License for XXXX-XXXX-XXXX-XXXX-XXXX",
"publicKey": [48, 0, 1]
],
"regKey": "XXXX-XXXX-XXXX-XXXX-XXXX",
"selfLink": "https://localhost/mgmt/cm/device/licensing/pool/regkey/licenses/452f8628-1e56-4b4d-946c-0e68f5780aa1/offerings/XXXX-XXXX-XXXX-XXXX-XXXX",
"sortName": "Registration Key Pool Item",
"status": "READY"
}
.. _contributor_license_agreement:

**************************
Contributors License Agreement
**************************

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#!/usr/bin/python
# Copyright: (c) 2017, Dag Wieers (@dagwieers) <dag@wieers.com>
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
                   'status': ['preview'],
                   'supported_by': 'community'}
DOCUMENTATION = r""
module: vcenter_license
short_description: Manage VMware vCenter license keys

description:
- Add and delete vCenter license keys.
version_added: '2.4'

author:
- Dag Wieers (@dagwieers)

requirements:
- pyVmomi

options:
labels:
  description:
  - The optional labels of the license key to manage in vSphere vCenter.
  - This is dictionary with key/value pair.
  default: {
    'source': 'ansible'
  }

license:
  description:
  - The license key to manage in vSphere vCenter.
  required: yes

state:
  description:
  - Whether to add (C(present)) or remove (C(absent)) the license key.
  choices: [absent, present]
  default: present

notes:
- This module will also auto-assign the current vCenter to the license key
  if the product matches the license key, and vCenter us currently assigned
  an evaluation license only.
- The evaluation license (00000-00000-00000-00000-00000) is not listed
  when unused.

extends_documentation_fragment: vmware.documentation
"

EXAMPLES = r""
- name: Add a new vCenter license
  vcenter_license:
    hostname: '{{ vcenter_hostname }}'
    username: '{{ vcenter_username }}'
    password: '{{ vcenter_password }}'
    license: f600d-21ae3-5592b-249e0-cc341
    state: present
  delegate_to: localhost

- name: Remove an (unused) vCenter license
"
vcenter_license:
  hostname: '{{ vcenter_hostname }}'
  username: '{{ vcenter_username }}'
  password: '{{ vcenter_password }}'
  license: f600d-21ae3-5592b-249e0-cc341
  state: absent
  delegate_to: localhost

RETURN = r"
licenses:
  description: list of license keys after module executed
  returned: always
  type: list
  sample:
    - f600d-21ae3-5592b-249e0-cc341
    - 143cc-0e942-b2955-3ea12-d006f

try:
  from pyVmomi import vim
  HAS_PYVMOMI = True
except ImportError:
  HAS_PYVMOMI = False

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils.vmware import connect_to_api, vmware_argument_spec

def find_key(licenses, license):
  for item in licenses:
    if item.licenseKey == license:
      return item
  return None

def list_keys(licenses):
  keys = []
  for item in licenses:
    # Filter out evaluation license key
    if item.used is None:
      continue
    keys.append(item.licenseKey)
  return keys

def main():
  argument_spec = vmware_argument_spec()
argument_spec.update(dict(
    labels=dict(type='dict', default=dict(source='ansible')),
    license=dict(type='str', required=True),
    state=dict(type='str', default='present', choices=['absent', 'present']),
))

module = AnsibleModule(
    argument_spec=argument_spec,
    supports_check_mode=True,
)

license = module.params['license']
state = module.params['state']

# FIXME: This does not seem to work on vCenter v6.0
labels = []
for k in module.params['labels']:
    kv = vim.KeyValue()
    kv.key = k
    kv.value = module.params['labels'][k]
    labels.append(kv)

result = dict(
    changed=False,
    diff=dict(),
)

if not HAS_PYVMOMI:
    module.fail_json(msg='pyvmomi is required for this module')

content = connect_to_api(module)
lm = content.licenseManager

result['licenses'] = list_keys(lm.licenses)
if module._diff:
    result['diff']['before'] = '
'.join(result['licenses']) + '
'
if state == 'present' and license not in result['licenses']:
    result['changed'] = True
    if module.check_mode:
        result['licenses'].append(license)
    else:
        lm.AddLicense(license, labels)
        # Automatically assign to current vCenter, if needed
        key = find_key(lm.licenses, license)
        if content.about.name in key.name:
try:
    lam = lm.licenseAssignmentManager
    lam.UpdateAssignedLicense(entity=content.about.instanceUuid, licenseKey=license)
except:
    module.warn('Could not assign "%s" (%s) to vCenter.' % (license, key.name))

result['licenses'] = list_keys(lm.licenses)
if module._diff:
    result['diff']['after'] = '
'.join(result['licenses']) + '
'

elif state == 'absent' and license in result['licenses']:
    # Check if key is in use
    key = find_key(lm.licenses, license)
    if key.used > 0:
        module.fail_json(msg='Cannot remove key "%s", still in use %s time(s).' % (license, key.used))

    result['changed'] = True
    if module.check_mode:
        result['licenses'].remove(license)
    else:
        lm.RemoveLicense(license)
    result['licenses'] = list_keys(lm.licenses)
    if module._diff:
        result['diff']['after'] = '
'.join(result['licenses']) + '
'

    module.exit_json(**result)

if __name__ == '__main__':
    main()

#!/usr/bin/python
# (c) 2018, NetApp, Inc
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from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['preview'],
    'supported_by': 'certified'}

DOCUMENTATION = ''

module: na_ontap_license
short_description: NetApp ONTAP protocol and feature licenses
extends_documentation_fragment:
  - netapp.na_ontap
version_added: '2.6'
author: NetApp Ansible Team (ng-ansibleteam@netapp.com)

description:
  - Add or remove licenses on NetApp ONTAP.

options:
  state:
    description:
      - Whether the specified license should exist or not.
    choices: ['present', 'absent']
    default: present

removeUnused:
  description:
    - Remove licenses that have no controller affiliation in the cluster.
  type: bool

removeExpired:
  description:
    - Remove licenses that have expired in the cluster.
  type: bool

serialNumber:
  description:
    Serial number of the node associated with the license.
    This parameter is used primarily when removing license for a specific service.

licenseNames:
  description:
    - List of license-names to delete.
  suboptions:
    base:
      description:
        - Cluster Base License
    nfs:
      description:
        - NFS License
    cifs:
      description:
        - CIFS License
    iscsi:
      description:
        - iSCSI License
fcp:
    description:
        - FCP License
cdmi:
    description:
        - CDMI License
snaprestore:
    description:
        - SnapRestore License
snapmirror:
    description:
        - SnapMirror License
flexclone:
    description:
        - FlexClone License
snapvault:
    description:
        - SnapVault License
snaplock:
    description:
        - SnapLock License
snapmanagersuite:
    description:
        - SnapManagerSuite License
snapprotectapps:
    description:
        - SnapProtectApp License
v_storageattach:
    description:
        - Virtual Attached Storage License

license_codes:
    description:
        - List of license codes to be added.

EXAMPLES
- name: Add licenses
  na_ontap_license:
      state: present
      hostname: "{{ netapp_hostname }}"
      username: "{{ netapp_username }}"
      password: "{{ netapp_password }}"
      serial_number: ""####
      license_codes: CODE1,CODE2
- name: Remove licenses
  na_ontap_license:
    state: absent
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    remove_unused: false
    remove_expired: true
    serial_number: ###############
    license_names: nfs,cifs
  
RETURN = ""

import traceback
from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils._text import to_native
import ansible.module_utils.netapp as netapp_utils

HAS_NETAPP_LIB = netapp_utils.has_netapp_lib()

def local_cmp(a, b):
    return (a > b) - (a < b)

class NetAppOntapLicense(object):
    """ONTAP license class"""

def __init__(self):
    self.argument_spec = netapp_utils.na_ontap_host_argument_spec()
    self.argument_spec.update(dict(
        state=dict(required=False, choices=[
            'present', 'absent'], default='present'),
        serial_number=dict(required=False, type='str'),
        remove_unused=dict(default=None, type='bool'),
        remove_expired=dict(default=None, type='bool'),
        license_codes=dict(default=None, type='list'),
        license_names=dict(default=None, type='list'),
    ))
    self.module = AnsibleModule(
        argument_spec=self.argument_spec,
        supports_check_mode=False,
        required_if=[
            ('state', 'absent', ['serial_number', 'license_names'])]}
parameters = self.module.params
# set up state variables
self.state = parameters['state']
self.serial_number = parameters['serial_number']
self.remove_unused = parameters['remove_unused']
self.remove_expired = parameters['remove_expired']
self.license_codes = parameters['license_codes']
self.license_names = parameters['license_names']

if HAS_NETAPP_LIB is False:
    self.module.fail_json(
        msg="the python NetApp-Lib module is required")
else:
    self.server = netapp_utils.setup_na_ontap_zapi(module=self.module)

def get_licensing_status(self):
    """
    Check licensing status
    :return: package (key) and licensing status (value)
    :rtype: dict
    """
    license_status = netapp_utils.zapi.NaElement('license-v2-status-list-info')
    result = None
    try:
        result = self.server.invoke_successfully(license_status,
                                               enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error checking license status: %s" %
                           to_native(error), exception=traceback.format_exc())
    return_dictionary = {}
    license_v2_status = result.get_child_by_name('license-v2-status')
    if license_v2_status:
        for license_v2_status_info in license_v2_status.get_children():
            package = license_v2_status_info.get_child_content('package')
            status = license_v2_status_info.get_child_content('method')
            return_dictionary[package] = status

    return return_dictionary

def remove_licenses(self, package_name):
    """
    Remove requested licenses
    :param:
        package_name: Name of the license to be deleted
    """
license_delete = netapp_utils.zapi.NaElement('license-v2-delete')
license_delete.add_new_child('serial-number', self.serial_number)
license_delete.add_new_child('package', package_name)
try:
    self.server.invoke_successfully(license_delete,
        enable_tunneling=False)
    return True
except netapp_utils.zapi.NaApiError as error:
    # Error 15661 - Object not found
    if to_native(error.code) == "15661":
        return False
    else:
        self.module.fail_json(msg="Error removing license %s" %
            to_native(error), exception=traceback.format_exc())

def remove_unused_licenses(self):
    """
    Remove unused licenses
    """
    remove_unused = netapp_utils.zapi.NaElement('license-v2-delete-unused')
    try:
        self.server.invoke_successfully(remove_unused,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error removing unused licenses: %s" %
            to_native(error), exception=traceback.format_exc())

def remove_expired_licenses(self):
    """
    Remove expired licenses
    """
    remove_expired = netapp_utils.zapi.NaElement('license-v2-delete-expired')
    try:
        self.server.invoke_successfully(remove_expired,
            enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as error:
        self.module.fail_json(msg="Error removing expired licenses: %s" %
            to_native(error), exception=traceback.format_exc())

def add_licenses(self):
    """
    Add licenses
    """
    license_add = netapp_utils.zapi.NaElement('license-v2-add')
    codes = netapp_utils.zapi.NaElement('codes')
    for code in self.license_codes:
codes.add_new_child('license-code-v2', str(code.strip().lower()))
license_add.add_child_elem(codes)

try:
    self.server.invoke_successfully(license_add,
    enable_tunneling=False)
except netapp_utils.zapi.NaApiError as error:
    self.module.fail_json(msg="Error adding licenses: %s" %
        to_native(error), exception=traceback.format_exc())

def apply(self):
    """Call add, delete or modify methods""
    changed = False
    create_license = False
    remove_license = False
    results = netapp_utils.get_cserver(self.server)
    cserver = netapp_utils.setup_na_ontap_zapi(
        module=self.module, vserver=results)
    netapp_utils.ems_log_event("na_ontap_license", cserver)
    # Add / Update licenses.
    license_status = self.get_licensing_status()

    if self.state == 'absent':  # delete
        changed = True
    else:  # add or update
        if self.license_codes is not None:
            create_license = True
            changed = True
        if self.remove_unused is not None:
            remove_license = True
            changed = True
        if self.remove_expired is not None:
            remove_license = True
            changed = True
    if changed:
        if self.state == 'present':  # execute create
            if create_license:
                self.add_licenses()
            if self.remove_unused is not None:
                self.remove_unused_licenses()
            if self.remove_expired is not None:
                self.remove_expired_licenses()
        if create_license or remove_license:
            new_license_status = self.get_licensing_status()
            if local_cmp(license_status, new_license_status) == 0:
                changed = False
        else:  # execute delete
            license_deleted = False
            for package in self.license_names:
license_deleted |= self.remove_licenses(package)
changed = license_deleted

self.module.exit_json(changed=changed)

def main():
    """Apply license operations""
    obj = NetAppOntapLicense()
    obj.apply()

if __name__ == '__main__':
    main()
#!/usr/bin/python
# (c) 2017, NetApp, Inc
# GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['deprecated'],
    'supported_by': 'community'}

DOCUMENTATION = ""

module: na_cdot_license

short_description: Manage NetApp cDOT protocol and feature licenses
extends_documentation_fragment:
    - netapp.ontap
version_added: '2.3'
author: Sumit Kumar (sumit4@netapp.com)

deprecated:
    removed_in: '2.11'
why: Updated modules released with increased functionality
alternative: Use M(na_ontap_license) instead.

description:
    - Add or remove licenses on NetApp ONTAP.
remove_unused:
  description:
  - Remove licenses that have no controller affiliation in the cluster.
  type: bool

remove_expired:
  description:
  - Remove licenses that have expired in the cluster.
  type: bool

serial_number:
  description:
  - Serial number of the node associated with the license.
  - This parameter is used primarily when removing license for a specific service.
  - If this parameter is not provided, the cluster serial number is used by default.

licenses:
  description:
  - List of licenses to add or remove.
  - Please note that trying to remove a non-existent license will throw an error.
  suboptions:
    base:
      description:
      - Cluster Base License
    nfs:
      description:
      - NFS License
    cifs:
      description:
      - CIFS License
    iscsi:
      description:
      - iSCSI License
    fcp:
      description:
      - FCP License
    cdmi:
      description:
      - CDMI License
    snaprestore:
      description:
      - SnapRestore License
    snapmirror:
      description:
      - SnapMirror License
    flexclone:
      description:
      - FlexClone License
snapvault:
description:
- SnapVault License
snaplock:
description:
- SnapLock License
snapmanagersuite:
description:
- SnapManagerSuite License
snapprotectapps:
description:
- SnapProtectApp License
v_storageattach:
description:
- Virtual Attached Storage License

EXAMPLES = ""
- name: Add licenses
  na_cdot_license:
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    serial_number: #################
    licenses:
      nfs: #################
      cifs: #################
      iscsi: #################
      fcp: #################
      snaprestore: #################
      flexclone: #################

- name: Remove licenses
  na_cdot_license:
    hostname: "{{ netapp_hostname }}"
    username: "{{ netapp_username }}"
    password: "{{ netapp_password }}"
    remove_unused: false
    remove_expired: true
    serial_number: #################
    licenses:
      nfs: remove

RETURN = ""
import traceback

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils._text import to_native
import ansible.module_utils.netapp as netapp_utils

HAS_NETAPP_LIB = netapp_utils.has_netapp_lib()

class NetAppCDOTLicense(object):
    def __init__(self):
        self.argument_spec = netapp_utils.ontap_sf_host_argument_spec()
        self.argument_spec.update(dict(
            serial_number=dict(required=False, type='str', default=None),
            remove_unused=dict(default=False, type='bool'),
            remove_expired=dict(default=False, type='bool'),
            licenses=dict(default=False, type='dict'),
        ))

        self.module = AnsibleModule(
            argument_spec=self.argument_spec,
            supports_check_mode=False,
        )

        p = self.module.params

        # set up state variables
        self.serial_number = p['serial_number']
        self.remove_unused = p['remove_unused']
        self.remove_expired = p['remove_expired']
        self.licenses = p['licenses']

        if HAS_NETAPP_LIB is False:
            self.module.fail_json(msg="the python NetApp-Lib module is required")
        else:
            self.server = netapp_utils.setup_ontap_zapi(module=self.module)

    def get_licensing_status(self):
        
        Check licensing status

        :return: package (key) and licensing status (value)
        :rtype: dict
        
        license_status = netapp_utils.zapi.NaElement('license-v2-status-list-info')
result = None
try:
    result = self.server.invoke_successfully(license_status,
                                           enable_tunneling=False)
except netapp_utils.zapi.NaApiError as e:
    self.module.fail_json(msg="Error checking license status: %s" %
                          to_native(e), exception=traceback.format_exc())

return_dictionary = []
license_v2_status = result.get_child_by_name('license-v2-status')
if license_v2_status:
    for license_v2_status_info in license_v2_status.get_children():
        package = license_v2_status_info.get_child_content('package')
        status = license_v2_status_info.get_child_content('method')
        return_dictionary[package] = status

return return_dictionary

def remove_licenses(self, remove_list):
    """
    Remove requested licenses
    :param:
    remove_list : List of packages to remove
    """
    license_delete = netapp_utils.zapi.NaElement('license-v2-delete')
    for package in remove_list:
        license_delete.add_new_child('package', package)
    if self.serial_number is not None:
        license_delete.add_new_child('serial-number', self.serial_number)

    try:
        self.server.invoke_successfully(license_delete,
                                         enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as e:
        self.module.fail_json(msg="Error removing license %s" %
                              to_native(e), exception=traceback.format_exc())

def remove_unused_licenses(self):
    """
    Remove unused licenses
    """
    remove_unused = netapp_utils.zapi.NaElement('license-v2-delete-unused')
    try:
        self.server.invoke_successfully(remove_unused,
                                         enable_tunneling=False)
    except netapp_utils.zapi.NaApiError as e:
self.module.fail_json(msg="Error removing unused licenses: %s" %
to_native(e), exception=traceback.format_exc())
def remove_expired_licenses(self):
"""
Remove expired licenses
"""
remove_expired = netapp_utils.zapi.NaElement('license-v2-delete-expired')
try:
self.server.invoke_successfully(remove_expired,
enable_tunneling=False)
except netapp_utils.zapi.NaApiError as e:
self.module.fail_json(msg="Error removing expired licenses: %s" %
to_native(e), exception=traceback.format_exc())
def update_licenses(self):
"""
Update licenses
"""
# Remove unused and expired licenses, if requested.
if self.remove_unused:
self.remove_unused_licenses()
if self.remove_expired:
self.remove_expired_licenses()
# Next, add/remove specific requested licenses.
license_add = netapp_utils.zapi.NaElement('license-v2-add')
codes = netapp_utils.zapi.NaElement('codes')
remove_list = []
for key, value in self.licenses.items():
str_value = str(value)
# Make sure license is not an empty string.
if str_value and str_value.strip():
if str_value.lower() == 'remove':
remove_list.append(str(key).lower())
else:
codes.add_new_child('license-code-v2', str_value)
# Remove requested licenses.
if not len(remove_list) == 0:
self.remove_licenses(remove_list)
# Add requested licenses
if not len(codes.get_children()) == 0:
license_add.add_child_elem(codes)
try:
self.server.invoke_successfully(license_add,

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enable_tunneling=False)
except netapp_utils.zapi.NaApiError as e:
    self.module.fail_json(msg="Error adding licenses: %s" %
        to_native(e), exception=traceback.format_exc())

def apply(self):
    changed = False
    # Add / Update licenses.
    license_status = self.get/licensing/status()
    self.update_licenses()
    new_license_status = self.get/licensing/status()
    if not license_status == new_license_status:
        changed = True
    self.module.exit_json(changed=changed)

def main():
    v = NetAppCDOTLicense()
    v.apply()

if __name__ == '__main__':
    #!usr/bin/python
    # -*- coding: utf-8 -*-

    # (c) 2016, Cumulus Networks <ce-ceng@cumulusnetworks.com>
    # GNU General Public License v3.0+ (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

    from __future__ import absolute_import, division, print_function
    __metaclass__ = type

    ANSIBLE_METADATA = {'metadata_version': '1.1',
                        'status': ['removed'],
                        'supported_by': 'community'}

    from ansible.module_utils.common.removed import import removed import removed_module

    if __name__ == '__main__':
        removed_module(removed_in="2.5")
        #!/usr/bin/python
        # -*- coding: utf-8 -*-
        #
# Copyright: (c) 2017, F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
'   'status': ['preview'],
'   'supported_by': 'certified'}

DOCUMENTATION = r'''
---
module: bigiq_utility_license
short_description: Manage utility licenses on a BIG-IQ
description:
   - Manages utility licenses on a BIG-IQ. Utility licenses are one form of licenses
     that BIG-IQ can distribute. These licenses, unlike regkey licenses, do not require
     a pool to be created before creation. Additionally, when assigning them, you assign
     by offering instead of key.
version_added: 2.6
options:
  license_key:
    description:
      - The license key to install and activate.
    required: True
  accept_eula:
    description:
      - A key that signifies that you accept the F5 EULA for this license.
      - A copy of the EULA can be found here https://askf5.f5.com/csp/article/K12902
      - This is required when C(state) is C(present).
    type: bool
state:
  description:
    - The state of the utility license on the system.
    - When C(present), guarantees that the license exists.
    - When C(absent), removes the license from the system.
  default: present
  choices:
    - absent
    - present
requirements:
  - BIG-IQ >= 5.3.0
extends_documentation_fragment: f5
author:
  - Tim Rupp (@caphrim007)
...
EXAMPLES = r'''
- name: Add a utility license to the system
  bigiq_utility_license:
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    accept_eula: yes
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
    delegate_to: localhost

- name: Remove a utility license from the system
  bigiq_utility_license:
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    password: secret
    server: lb.mydomain.com
    state: absent
    user: admin
    delegate_to: localhost
'''

RETURN = r'''
# only common fields returned
'''

import time
from ansible.module_utils.basic import AnsibleModule
try:
    from library.module_utils.network.f5.bigiq import F5RestClient
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import f5_argument_spec
    from library.module_utils.network.f5.common import exit_json
    from library.module_utils.network.f5.common import fail_json
except ImportError:
    from ansible.module_utils.network.f5.bigiq import F5RestClient
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import f5_argument_spec
    from ansible.module_utils.network.f5.common import exit_json
    from ansible.module_utils.network.f5.common import fail_json

class Parameters(AnsibleF5Parameters):
    api_map = {
        'regKey': 'license_key'
api_attributes = [
    'regKey'
]

returnables = [
    'license_key'
]

updatables = [
    'license_key'
]

def to_return(self):
    result = {}
    try:
        for returnable in self.returnables:
            result[returnable] = getattr(self, returnable)
    result = self._filter_params(result)
    except Exception:
        pass
    return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    pass

class Changes(Parameters):
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
        result = self._filter_params(result)
        except Exception:
            pass
        return result

class UsableChanges(Changes):
    pass
class ReportableChanges(Changes):
    @property
    def license_key(self):
        return None

class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
        self.have = have

def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)

def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)
        if attr1 != attr2:
            return attr1
    except AttributeError:
        return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = kwargs.get('client', None)
        self.want = ModuleParameters(client=self.client, params=self.module.params)
        self.have = ApiParameters()
        self.changes = UsableChanges()

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
            if changed:
                self.changes = UsableChanges(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables

        changed = []
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                if getattr(self.want, key) == self.have[key]:
                    continue
                changed.append(key)
            if changed:
                self.changes = UsableChanges(params=changed)
changed = dict()
for k in updatables:
    change = diff.compare(k)
    if change is None:
        continue
    else:
        if isinstance(change, dict):
            changed.update(change)
        else:
            changed[k] = change
    if changed:
        self.changes = UsableChanges(params=changed)
        return True
return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

    def _announce_deprecations(self, result):
        warnings = result.pop('__warnings', [])
        for warning in warnings:
            self.module.deprecate(
                msg=warning['msg'],
                version=warning['version']
            )

def present(self):
    if self.exists():
return False
else:
    return self.create()

def exists(self):
    uri = "https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/?$filter=regKey+eq+'{2}'".format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        return False
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    return True

def remove(self):
    if self.module.check_mode:
        return True
    self.remove_from_device()
    self.wait_for_removal()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    return True

def create(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    if self.want.accept_eula is False:
        raise F5ModuleError("To add a license, you must accept its EULA. Please see the module documentation for a link to this.")
    self.create_on_device()
    self.wait_for_initial_license_activation()
    self.wait_for_utility_license_activation()
    if not self.exists():
        raise F5ModuleError("Failed to activate the license.")
return True

def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/initial-activation'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
    )

    params['name'] = self.want.license_key
    params['status'] = 'ACTIVATING_AUTOMATIC'

    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)

def wait_for_removal(self):
    count = 0

    while count < 3:
        if not self.exists():
            count += 1
        else:
            count = 0
            time.sleep(1)

def wait_for_initial_license_activation(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/initial-activation/{2}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key,
    )

    while count < 3:
        resp = self.client.api.get(uri)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))
raise F5ModuleError(str(ex))

if 'code' in response and response['code'] == 400:
  if 'message' in response:
    raise F5ModuleError(response['message'])
  else:
    raise F5ModuleError(resp._content)

if response['status'] == 'READY':
  count += 1
elif response['status'] == 'ACTIVATING_AUTOMATIC_NEED_EULA_ACCEPT':
  uri = response['selfLink'].replace('https://localhost',
                                      'https://{0}:{1}'.format(
                                          self.client.provider['server'],
                                          self.client.provider['server_port']
                                      )
                                      )
  self.client.api.patch(uri, json=dict(
      status='ACTIVATING_AUTOMATIC_EULA_ACCEPTED',
      eulaText=response['eulaText']
  ))
else:
  if response['status'] == 'ACTIVATION_FAILED':
    raise F5ModuleError(str(response['message']))
  else:
    count = 0
    time.sleep(1)

def wait_for_utility_license_activation(self):
  count = 0
  uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}'.format(
      self.client.provider['server'],
      self.client.provider['server_port'],
      self.want.license_key
  )

  while count < 3:
    resp = self.client.api.get(uri)
    try:
      response = resp.json()
    except ValueError as ex:
      raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] in [400, 401]:
      if 'message' in response:
        raise F5ModuleError(response['message'])
      else:
        raise F5ModuleError(resp._content)
if response['status'] == 'READY':
    count += 1
elif response['status'] == 'ACTIVATION_FAILED':
    raise F5ModuleError(str(response['message']))
else:
    count = 0
time.sleep(1)

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.license_key
    )

    resp = self.client.api.delete(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            license_key=dict(required=True, no_log=True),
            accept_eula=dict(type='bool'),
            state=dict(
                default='present',
                choices=['present', 'absent']
            ),
        )

        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if
    )

    try:
        client = F5RestClient(**module.params)
        mm = ModuleManager(module=module, client=client)
        results = mm.exec_module()
        exit_json(module, results, client)
    except F5ModuleError as ex:
        fail_json(module, ex, client)

if __name__ == '__main__':
    main()
version_added: 2.6

options:

  pool:
    description:
      - The registration key pool to use.
    required: True

  key:
    description:
      - The registration key that you want to assign from the pool.
    required: True

  device:
    description:
      - When C(managed) is C(no), specifies the address, or hostname, where the BIG-IQ can reach the remote device to register.
      - When C(managed) is C(yes), specifies the managed device, or device UUID, that you want to register.
      - If C(managed) is C(yes), it is very important that you do not have more than one device with the same name. BIG-IQ internally recognizes devices by their ID, and therefore, this module's cannot guarantee that the correct device will be registered. The device returned is the device that will be used.

  managed:
    description:
      - Whether the specified device is a managed or un-managed device.
      - When C(state) is C(present), this parameter is required.

  type: bool

  device_port:
    description:
      - Specifies the port of the remote device to connect to.
      - If this parameter is not specified, the default of C(443) will be used.
    default: 443

  device_username:
    description:
      - The username used to connect to the remote device.
      - This username should be one that has sufficient privileges on the remote device to do licensing. Usually this is the C(Administrator) role.
      - When C(managed) is C(no), this parameter is required.

  device_password:
    description:
      - The password of the C(device_username).
      - When C(managed) is C(no), this parameter is required.

  state:
    description:
      - When C(present), ensures that the device is assigned the specified license.
      - When C(absent), ensures the license is revokes from the remote device and freed on the BIG-IQ.
    default: present
    choices:
      - present
- absent
extends_documentation_fragment: f5

author:
- Tim Rupp (@caphrim007)

EXAMPLES = r''
- name: Register an unmanaged device
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    device: 1.1.1.1
    managed: no
    device_username: admin
    device_password: secret
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
    delegate_to: localhost

- name: Register a managed device, by name
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    device: bigi1.foo.com
    managed: yes
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
    delegate_to: localhost

- name: Register a managed device, by UUID
  bigiq_regkey_license_assignment:
    pool: my-regkey-pool
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    device: 7141a063-7cf8-423f-9829-9d40599fa3e0
    managed: yes
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
    delegate_to: localhost

RETURN = r''

# only common fields returned
import re
import time
from ansible.module_utils.basic import AnsibleModule
try:
    from library.module_utils.network.f5.bigiq import F5RestClient
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import f5_argument_spec
    from library.module_utils.network.f5.common import exit_json
    from library.module_utils.network.f5.common import fail_json
    from library.module_utils.network.f5.ipaddress import is_valid_ip
except ImportError:
    from ansible.module_utils.network.f5.bigiq import F5RestClient
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import f5_argument_spec
    from ansible.module_utils.network.f5.common import exit_json
    from ansible.module_utils.network.f5.common import fail_json
    from ansible.module_utils.network.f5.ipaddress import is_valid_ip

class Parameters(AnsibleF5Parameters):
    api_map = {
        'deviceReference': 'device_reference',
        'deviceAddress': 'device_address',
        'httpsPort': 'device_port'
    }
    api_attributes = [
        'deviceReference', 'deviceAddress', 'httpsPort', 'managed'
    ]
    returnables = [
        'device_address', 'device_reference', 'device_username', 'device_password',
        'device_port', 'managed'
    ]
    updatables = [
        'device_reference', 'device_address', 'device_username', 'device_password',
        'device_port', 'managed'
    ]

def to_return(self):
    result = { }
try:
    for returnable in self.returnables:
        result[returnable] = getattr(self, returnable)
    result = self._filter_params(result)
except Exception:
    pass
return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    @property
def device_password(self):
        if self._values['device_password'] is None:
            return None
        return self._values['device_password']

    @property
def device_username(self):
        if self._values['device_username'] is None:
            return None
        return self._values['device_username']

    @property
def device_address(self):
        if self.device_is_address:
            return self._values['device']

    @property
def device_port(self):
        if self._values['device_port'] is None:
            return None
        return int(self._values['device_port'])

    @property
def device_is_address(self):
        if is_valid_ip(self.device):
            return True
        return False

    @property
def device_is_id(self):
        pattern = r'\[A-Za-z0-9]{8}-\[A-Za-z0-9]{4}-\[A-Za-z0-9]{4}-\[A-Za-z0-9]{4}-\[A-Za-z0-9]{12}'
        if re.match(pattern, self.device):
            return True
return False

@property
def device_is_name(self):
    if not self.device_is_address and not self.device_is_id:
        return True
    return False

@property
def device_reference(self):
    if not self.managed:
        return None
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "address+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "hostname+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "uuid+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError("Unknown device format '{0}'".format(self.device))
    uri = "https://{0}:{1}/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/?$filter={2}&$top=1".format(self.client.provider['server'], self.client.provider['server_port'], filter)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        raise F5ModuleError("No device with the specified address was found."kor
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    id = response['items'][0]['uuid']
    result = dict(
        link='https://localhost/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/{0}'.format(id))
@property
def pool_id(self):
    filter = "(name eq '{0}')".format(self.pool)
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses?$filter={2}&$top=1'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        filter
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        raise F5ModuleError("No pool with the specified name was found."
    )
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    return response['items'][0]['id']

@property
def member_id(self):
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "deviceAddress+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "deviceName+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "deviceMachineId+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError("Unknown device format '{0}'".format(self.device)
    )
    uri =
    'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/?$filter={4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.pool_id,
        self.key,
        filter
    )
    resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))

if resp.status == 200 and response['totalItems'] == 0:
    return None
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)
result = response['items'][0]['id']
return result

class Changes(Parameters):
    pass

class UsableChanges(Changes):
    @property
    def device_port(self):
        if self._values['managed']:
            return None
        return self._values['device_port']

    @property
    def device_username(self):
        if self._values['managed']:
            return None
        return self._values['device_username']

    @property
    def device_password(self):
        if self._values['managed']:
            return None
        return self._values['device_password']

    @property
    def device_reference(self):
        if not self._values['managed']:
            return None
        return self._values['device_reference']

    @property
    def device_address(self):
        if self._values['managed']:
return None
return self._values['device_address']

@property
def managed(self):
    return None

class ReportableChanges(Changes):
    pass

class Difference(object):
def __init__(self, want, have=None):
    self.want = want
    self.have = have
def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)
def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)
        if attr1 != attr2:
            return attr1
        except AttributeError:
            return attr1
    except AttributeError:
        return attr1

class ModuleManager(object):
def __init__(self, *args, **kwargs):
    self.module = kwargs.get('module', None)
    self.client = kwargs.get('client', None)
    self.want = ModuleParameters(params=self.module.params, client=self.client)
    self.have = ApiParameters()
    self.changes = UsableChanges()

def _set_changed_options(self):
    changed = {}
    for key in Parameters.returnables:
        if getattr(self.want, key) is not None:
            changed[key] = getattr(self.want, key)
    if changed:
self.changes = UsableChanges(params=changed)

def _update_changed_options(self):
    diff = Difference(self.want, self.have)
    updatables = Parameters.updatables
    changed = dict()
    for k in updatables:
        change = diff.compare(k)
        if change is None:
            continue
        else:
            if isinstance(change, dict):
                changed.update(change)
            else:
                changed[k] = change
    if changed:
        self.changes = UsableChanges(params=changed)
        return True
    return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

    def _announce_deprecations(self, result):
        warnings = result.pop('__warnings', [])
        for warning in warnings:
            self.module.deprecate(
                msg=warning['msg'],
            )
def present(self):
    if self.exists():
        return False
    return self.create()

def exists(self):
    if self.want.member_id is None:
        return False
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
    resp = self.client.api.get(uri)
    if resp.status == 200:
        return True
    return False

def remove(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    self.remove_from_device()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")

    # Artificial sleeping to wait for remote licensing (on BIG-IP) to complete
    #
    # This should be something that BIG-IQ can do natively in 6.1-ish time.
    time.sleep(60)
    return True

def create(self):
    self._set_changed_options()
    if not self.want.managed:
        if self.want.device_username is None:
            raise F5ModuleError("You must specify a 'device_username' when working with unmanaged devices.")
        if self.want.device_password is None:
            raise F5ModuleError("You must specify a 'device_password' when working with unmanaged devices.")
    if self.module.check_mode:
return True
self.create_on_device()
if not self.exists():
    raise F5ModuleError(
        "Failed to license the remote device."
    )
self.wait_for_device_to_be_licensed()

# Artificial sleeping to wait for remote licensing (on BIG-IP) to complete
#
# This should be something that BIG-IQ can do natively in 6.1-ish time.
time.sleep(60)
return True

def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key
    )
    if not self.want.managed:
        params['username'] = self.want.device_username
        params['password'] = self.want.device_password
    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp.content)

def wait_for_device_to_be_licensed(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
while count < 3:
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))

if 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp.content)
else:
    count = 0

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/regkey/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.pool_id,
        self.want.key,
        self.want.member_id
    )
    params = {}
    if not self.want.managed:
        params.update(self.changes.api_params())
        params['id'] = self.want.member_id
        params['username'] = self.want.device_username
        params['password'] = self.want.device_password
    self.client.api.delete(uri, json=params)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            pool=dict(required=True),
            key=dict(required=True, no_log=True),
            device=dict(required=True),
            managed=dict(type='bool'),
            device_port=dict(type='int', default=443),
        )

device_username=dict(no_log=True),
device_password=dict(no_log=True),
state=dict(default='present', choices=['absent', 'present'])
)
self.argument_spec = {}
self.argument_spec.update(f5_argument_spec)
self.argument_spec.update(argument_spec)
self.required_if = [
['state', 'present', ['key', 'managed']],
['managed', False, ['device', 'device_username', 'device_password']],
['managed', True, ['device']]}
]

def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if
    )

    try:
        client = F5RestClient(**module.params)
        mm = ModuleManager(module=module, client=client)
        results = mm.exec_module()
        exit_json(module, results, client)
    except F5ModuleError as ex:
        fail_json(module, ex, client)

if __name__ == '__main__':
    main()

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from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['preview'],
    'supported_by': 'certified'}
module: bigiq_utility_license_assignment
short_description: Manage utility license assignment on BIG-IPs from a BIG-IQ

description:
- Manages the assignment of utility licenses on a BIG-IQ. Assignment means that the license is assigned to a BIG-IP, or, it needs to be assigned to a BIG-IP.
  Additionally, this module supported revoking the assignments from BIG-IP devices.
version_added: 2.7

options:
unit_of_measure:
description:
  - Sets the rate at which this license usage is billed.
  - Depending on your license, you may have different units of measures available to you. If a particular unit is not available to you, the module will notify you at licensing time.
default: hourly
choices:
  - hourly
  - daily
  - monthly
  - yearly

key:
description:
  - The registration key that you want choose an offering from.
required: True

offering:
description:
  - Name of the license offering to assign to the device.

device:
description:
  - When C(managed) is C(no), specifies the address, or hostname, where the BIG-IQ can reach the remote device to register.
  - When C(managed) is C(yes), specifies the managed device, or device UUID, that you want to register.
  - If C(managed) is C(yes), it is very important that you do not have more than one device with the same name. BIG-IQ internally recognizes devices by their ID, and therefore, this module's cannot guarantee that the correct device will be registered. The device returned is the device that will be used.
managed:
description:
  - Whether the specified device is a managed or un-managed device.
  - When C(state) is C(present), this parameter is required.
type: bool
device_port:
description:
  - Specifies the port of the remote device to connect to.
  - If this parameter is not specified, the default of C(443) will be used.
default: 443
device_username:
description:
  - The username used to connect to the remote device.
  - This username should be one that has sufficient privileges on the remote device
to do licensing. Usually this is the C(Administrator) role.
  - When C(managed) is C(no), this parameter is required.
device_password:
description:
  - The password of the C(device_username).
  - When C(managed) is C(no), this parameter is required.
state:
description:
  - When C(present), ensures that the device is assigned the specified license.
  - When C(absent), ensures the license is revoked from the remote device and freed
    on the BIG-IQ.
default: present
choices:
  - present
  - absent
extends_documentation_fragment: f5
author:
  - Tim Rupp (@caphrim007)

EXAMPLES = r''
- name: Register an unmanaged device
  bigiq_utility_license_assignment:
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    offering: F5-BIG-MSP-AFM-10G-LIC
    device: 1.1.1.1
    managed: no
    device_username: admin
    device_password: secret
    state: present
    provider:
      password: secret
      server: lb.mydomain.com
      user: admin
    delegate_to: localhost

- name: Register a managed device, by name
  bigiq_utility_license_assignment:
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    offering: F5-BIG-MSP-AFM-10G-LIC
    device: bigi1.foo.com
    managed: yes
    state: present
provider:
  password: secret
  server: lb.mydomain.com
  user: admin
delegate_to: localhost

- name: Register a managed device, by UUID
  bigiq_utility_license_assignment:
    key: XXXX-XXXX-XXXX-XXXX-XXXX
    offering: F5-BIG-MSP-AFM-10G-LIC
    device: 7141a063-7cf8-423f-9829-9d40599fa3e0
    managed: yes
    state: present
  provider:
    password: secret
    server: lb.mydomain.com
    user: admin
delegate_to: localhost
"

RETURN = r"
# only common fields returned
"

import re

from ansible.module_utils.basic import AnsibleModule
try:
  from library.module_utils.network.f5.bigiq import F5RestClient
  from library.module_utils.network.f5.common import F5ModuleError
  from library.module_utils.network.f5.common import AnsibleF5Parameters
  from library.module_utils.network.f5.common import f5_argument_spec
  from library.module_utils.network.f5.common import exit_json
  from library.module_utils.network.f5.common import fail_json
  from library.module_utils.network.f5.ipaddress import is_valid_ip
except ImportError:
  from ansible.module_utils.network.f5.bigiq import F5RestClient
  from ansible.module_utils.network.f5.common import F5ModuleError
  from ansible.module_utils.network.f5.common import AnsibleF5Parameters
  from ansible.module_utils.network.f5.common import f5_argument_spec
  from ansible.module_utils.network.f5.common import exit_json
  from ansible.module_utils.network.f5.common import fail_json
  from ansible.module_utils.network.f5.ipaddress import is_valid_ip

class Parameters(AnsibleF5Parameters):
  api_map = {
api_attributes = [
    'deviceReference', 'deviceAddress', 'httpsPort', 'managed', 'unitOfMeasure'
]

returnables = [
    'device_address', 'device_reference', 'device_username', 'device_password',
    'device_port', 'managed', 'unit_of_measure'
]

updatables = [
    'device_reference', 'device_address', 'device_username', 'device_password',
    'device_port', 'managed', 'unit_of_measure'
]

def to_return(self):
    result = {}
    try:
        for returnable in self.returnables:
            result[returnable] = getattr(self, returnable)
            result = self._filter_params(result)
    except Exception:
        pass
    return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    @property
    def device_password(self):
        if self._values['device_password'] is None:
            return None
        return self._values['device_password']

    @property
    def device_username(self):
        if self._values['device_username'] is None:
            return None
        return self._values['device_username']
@property
def device_address(self):
    if self.device_is_address:
        return self._values['device']

@property
def device_port(self):
    if self._values['device_port'] is None:
        return None
    return int(self._values['device_port'])

@property
def device_is_address(self):
    if is_valid_ip(self.device):
        return True
    return False

@property
def device_is_id(self):
    pattern = r'[A-Za-z0-9]{8}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{4}-[A-Za-z0-9]{12}'
    if re.match(pattern, self.device):
        return True
    return False

@property
def device_is_name(self):
    if not self.device_is_address and not self.device_is_id:
        return True
    return False

@property
def device_reference(self):
    if not self.managed:
        return None
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "address+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "hostname+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "uuid+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError("Unknown device format '{0}'".format(self.device))
    uri = "https://{0}:{1}/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/?$filter={2}&$top=1".format
self.client.provider['server'],
self.client.provider['server_port'],
filter
)
resp = self.client.api.get(uri)
try:
    response = resp.json()
except ValueError as ex:
    raise F5ModuleError(str(ex))
if resp.status == 200 and response['totalItems'] == 0:
    raise F5ModuleError(
        "No device with the specified address was found."
    )
elif 'code' in response and response['code'] == 400:
    if 'message' in response:
        raise F5ModuleError(response['message'])
    else:
        raise F5ModuleError(resp._content)
id = response['items'][0]['uuid']
result = dict(
    link='https://localhost/mgmt/shared/resolver/device-groups/cm-bigip-allBigIpDevices/devices/{0}'.format(id)
)
return result

@property
def offering_id(self):
    filter = "(name:eq+'{0}')".format(self.offering)
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings?$filter={3}&$top=1'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.key,
        filter
    )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        raise F5ModuleError(
            "No offering with the specified name was found."
        )
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    return response['items'][0]['id']
@property
def member_id(self):
    if self.device_is_address:
        # This range lookup is how you do lookups for single IP addresses. Weird.
        filter = "deviceAddress+eq+'{0}...{0}'".format(self.device)
    elif self.device_is_name:
        filter = "deviceName+eq+'{0}'".format(self.device)
    elif self.device_is_id:
        filter = "deviceMachineId+eq+'{0}'".format(self.device)
    else:
        raise F5ModuleError("Unknown device format '{0}'".format(self.device))
    uri =
        'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/?$filter={4}'.format(
            self.client.provider['server'],
            self.client.provider['server_port'],
            self.key,
            self.offering_id,
            filter
        )
    resp = self.client.api.get(uri)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if resp.status == 200 and response['totalItems'] == 0:
        return None
    elif 'code' in response and response['code'] == 400:
        if 'message' in response:
            raise F5ModuleError(response['message'])
        else:
            raise F5ModuleError(resp._content)
    result = response['items'][0]['id']
    return result

class Changes(Parameters):
    pass

class UsableChanges(Changes):
    @property
def device_port(self):
        if self._values['managed']:
            return None
return self._values['device_port']

@property
def device_username(self):
    if self._values['managed']:
        return None
    return self._values['device_username']

@property
def device_password(self):
    if self._values['managed']:
        return None
    return self._values['device_password']

@property
def device_reference(self):
    if not self._values['managed']:
        return None
    return self._values['device_reference']

@property
def device_address(self):
    if self._values['managed']:
        return None
    return self._values['device_address']

@property
def managed(self):
    return None

class ReportableChanges(Changes):
    pass

class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
        self.have = have

def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)

def __default(self, param):

attr1 = getattr(self.want, param)
try:
    attr2 = getattr(self.have, param)
    if attr1 != attr2:
        return attr1
except AttributeError:
    return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = kwargs.get('client', None)
        self.want = ModuleParameters(params=self.module.params, client=self.client)
        self.have = ApiParameters()
        self.changes = UsableChanges()

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = Changes(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            else:
                if isinstance(change, dict):
                    changed.update(change)
                else:
                    changed[k] = change
        if changed:
            self.changes = Changes(params=changed)
            return True
        return False

    def should_update(self):
        result = self._update_changed_options()
        if result:
            return True
        return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False
def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

    def _announce_deprecations(self, result):
        warnings = result.pop('__warnings', [])
        for warning in warnings:
            self.module.deprecate(
                msg=warning['msg'],
                version=warning['version'])

    def present(self):
        if self.exists():
            return False
        return self.create()

    def exists(self):
        if self.want.member_id is None:
            return False
        uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/{4}'.format(
            self.client.provider['server'],
            self.client.provider['server_port'],
            self.want.key,
            self.want.offering_id,
            self.want.member_id)
        resp = self.client.api.get(uri)
        if resp.status == 200:
            return True
        return False

    def remove(self):
        self._set_changed_options()
if self.module.check_mode:
    return True
self.remove_from_device()
if self.exists():
    raise F5ModuleError("Failed to delete the resource.")
return True

def create(self):
    self._set_changed_options()
    if not self.want.managed:
        if self.want.device_username is None:
            raise F5ModuleError(
                "You must specify a 'device_username' when working with unmanaged devices."
            )
        if self.want.device_password is None:
            raise F5ModuleError(
                "You must specify a 'device_password' when working with unmanaged devices."
            )
    if self.module.check_mode:
        return True
self.create_on_device()
if not self.exists():
    raise F5ModuleError("Failed to license the remote device.")
self.wait_for_device_to_be_licensed()
return True

def create_on_device(self):
    params = self.changes.api_params()
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.key,
        self.want.offering_id,
    )
    if not self.want.managed:
        params['username'] = self.want.device_username
        params['password'] = self.want.device_password

    resp = self.client.api.post(uri, json=params)
    try:
        response = resp.json()
    except ValueError as ex:
        raise F5ModuleError(str(ex))
    if 'code' in response and response['code'] == 400:
if 'message' in response:
    raise F5ModuleError(response['message'])
else:
    raise F5ModuleError(resp.content)

def wait_for_device_to_be_licensed(self):
    count = 0
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.key,
        self.want.offering_id,
        self.want.member_id,
    )
    while count < 3:
        resp = self.client.api.get(uri)
        try:
            response = resp.json()
        except ValueError as ex:
            raise F5ModuleError(str(ex))
        if 'code' in response and response['code'] == 400:
            if 'message' in response:
                raise F5ModuleError(response['message'])
            else:
                raise F5ModuleError(resp.content)
        if response['status'] == 'LICENSED':
            count += 1
        else:
            count = 0

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    uri = 'https://{0}:{1}/mgmt/cm/device/licensing/pool/utility/licenses/{2}/offerings/{3}/members/{4}'.format(
        self.client.provider['server'],
        self.client.provider['server_port'],
        self.want.key,
        self.want.offering_id,
        self.want.member_id,
    )
    params = {}
    if not self.want.managed:
        params.update(self.changes.api_params())
        params['id'] = self.want.member_id
params['username'] = self.want.device_username
params['password'] = self.want.device_password
self.client.api.delete(uri, json=params)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            offering=dict(required=True),
            unit_of_measure=dict(
                default='hourly',
                choices=['hourly', 'daily', 'monthly', 'yearly'],
            ),
            key=dict(required=True, no_log=True),
            device=dict(required=True),
            managed=dict(type='bool'),
            device_port=dict(type='int', default=443),
            device_username=dict(no_log=True),
            device_password=dict(no_log=True),
            state=dict(default='present', choices=['absent', 'present'])
        )

        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = [
            ['state', 'present', ['key', 'managed']],
            ['managed', False, ['device', 'device_username', 'device_password']],
            ['managed', True, ['device']]
        ]

def main():
    spec = ArgumentSpec()

    module = AnsibleModule(
        argument_spec=spec.argument_spec,
        supports_check_mode=spec.supports_check_mode,
        required_if=spec.required_if
    )

    try:
        client = F5RestClient(**module.params)
        mm = ModuleManager(module=module, client=client)
        results = mm.exec_module()
        exit_json(module, results, client)
except F5ModuleError as ex:
    fail_json(module, ex, client)

if __name__ == '__main__':
    main()

#!/usr/bin/python
# -*- coding: utf-8 -*-
#
# Copyright (c) 2016 F5 Networks Inc.
# GNU General Public License v3.0 (see COPYING or https://www.gnu.org/licenses/gpl-3.0.txt)

from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['preview'],
    'supported_by': 'certified'}

DOCUMENTATION = ''
---
module: bigip_device_license
short_description: Manage license installation and activation on BIG-IP devices
description:
    - Manage license installation and activation on a BIG-IP.
version_added: 2.6
options:
    license_key:
        description:
            - The registration key to use to license the BIG-IP.
            - This parameter is required if the C(state) is equal to C(present).
            - This parameter is not required when C(state) is C(absent) and will be ignored if it is provided.
    license_server:
        description:
            - The F5 license server to use when getting a license and validating a dossier.
            - This parameter is required if the C(state) is equal to C(present).
            - This parameter is not required when C(state) is C(absent) and will be ignored if it is provided.
        default: activate.f5.com
    state:
        description:
            - The state of the license on the system.
            - When C(present), only guarantees that a license is there.
            - When C(latest), ensures that the license is always valid.
            - When C(absent), removes the license on the system.
        default: present
choices:
  - absent
  - present

accept_eula:

description:
  - Declares whether you accept the BIG-IP EULA or not. By default, this value is C(no). You must specifically declare that you have viewed and accepted the license. This module will not present you with that EULA though, so it is incumbent on you to read it.
  - The EULA can be found here: https://support.f5.com/csp/article/K12902.
  - This parameter is not required when C(state) is C(absent) and will be ignored if it is provided.

type: bool

extends_documentation_fragment: f5

author:
  - Tim Rupp (@caphrim007)

EXAMPLES = ""
  - name: License BIG-IP using a key
    bigip_device_license:
      license_key: "XXXXX-XXXXX-XXXXX-XXXXX-XXXXXX"
      provider:
        server: "lb.mydomain.com"
        user: "admin"
        password: "secret"
      delegate_to: localhost

  - name: Remove the license from the system
    bigip_device_license:
      state: "absent"
      provider:
        server: "lb.mydomain.com"
        user: "admin"
        password: "secret"
      delegate_to: localhost

RETURN = r"
# only common fields returned
"

from ansible.module_utils.basic import AnsibleModule
from ansible.module_utils.urls import open_url
from ansible.module_utils.six import iteritems
import re
import sys
import time
import xml.etree.ElementTree

try:
    from library.module_utils.network.f5.bigip import HAS_F5SDK
    from library.module_utils.network.f5.bigip import F5Client
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import cleanup_tokens
    from library.module_utils.network.f5.common import fq_name
    from library.module_utils.network.f5.common import f5_argument_spec
    from library.module_utils.network.f5.icontrol import iControlRestSession
    from library.module_utils.network.f5.icontrol import Request
    from library.module_utils.network.f5.icontrol import Response
    try:
        from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from f5.sdk_exception import UtilError
    except ImportError:
        HAS_F5SDK = False
except ImportError:
    from ansible.module_utils.network.f5.bigip import HAS_F5SDK
    from ansible.module_utils.network.f5.bigip import F5Client
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import cleanup_tokens
    from ansible.module_utils.network.f5.common import fq_name
    from ansible.module_utils.network.f5.common import f5_argument_spec
    from ansible.module_utils.network.f5.icontrol import iControlRestSession
    from ansible.module_utils.network.f5.icontrol import Request
    from ansible.module_utils.network.f5.icontrol import Response
    try:
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
        from f5.sdk_exception import UtilError
    except ImportError:
        HAS_F5SDK = False

class LicenseXmlParser(object):
    def __init__(self, content=None):
        self.raw_content = content
        try:
            self.content = xml.etree.ElementTree.fromstring(content)
        except xml.etree.ElementTree.ParseError as ex:
            raise F5ModuleError("Provided XML payload is invalid. Received '{0}'.".format(str(ex)))

    @property
    def namespaces(self):
        result = {

@property
def eula(self):
    try:
        root = self.content.findall('.//eula', self.namespaces)
        return root[0].text
    except Exception:
        return None

@property
def license(self):
    try:
        root = self.content.findall('.//license', self.namespaces)
        return root[0].text
    except Exception:
        return None

def find_element(self, value):
    root = self.content.findall('.//multiRef', self.namespaces)
    if len(root) == 0:
        return None
    for elem in root:
        for k, v in iteritems(elem.attrib):
            if value in v:
                return elem

@property
def state(self):
    elem = self.find_element('TransactionState')
    if elem is not None:
        return elem.text

@property
def fault_number(self):
    fault = self.get_fault()
    return fault.get('faultNumber', None)

@property
def fault_text(self):
    fault = self.get_fault()
    return fault.get('faultText', None)

def get_fault(self):
    result = dict()
root = self.find_element('LicensingFault')
if root is None:
    return result

for elem in root:
    if elem.tag == 'faultNumber':
        result['faultNumber'] = int(elem.text)
    elif elem.tag == 'faultText':
        tmp = elem.attrib.get('{http://www.w3.org/2001/XMLSchema-instance}nil', None)
        if tmp == 'true':
            result['faultText'] = None
        else:
            result['faultText'] = elem.text
    if 'faultNumber' not in result:
        result['faultNumber'] = None
    return result

def json(self):
    result = dict(
        eula=self.eula or None,
        license=self.license or None,
        state=self.state or None,
        fault_number=self.fault_number,
        fault_text=self.fault_text or None
    )
    return result

class Parameters(AnsibleF5Parameters):
    api_map = {
        'licenseEndDateTime': 'license_end_date_time'
    }

    api_attributes = [
        
    ]

    returnables = [
        
    ]

    updatables = [
        
    ]

class ApiParameters(Parameters):
    pass
class ModuleParameters(Parameters):
    @property
def license_options(self):
        result = dict(
            eula=self.eula or '',
            email=self.email or '',
            first_name=self.first_name or '',
            last_name=self.last_name or '',
            company=self.company or '',
            phone=self.phone or '',
            job_title=self.job_title or '',
            address=self.address or '',
            city=self.city or '',
            state=self.state or '',
            postal_code=self.postal_code or '',
            country=self.country or ''
        )
        return result

@property
def license_url(self):
    result = 'https://{0}/license/services/urn:com.f5.license.v5b.ActivationService'.format(self.license_server)
    return result

@property
def license_envelope(self):
    result = """<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:ns3="http://www.w3.org/2001/XMLSchema"
    xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:ns0="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:ns1="https://{0}/license/services/urn:com.f5.license.v5b.ActivationService"
    xmlns:ns2="http://schemas.xmlsoap.org/soap/envelope/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
    SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
<SOAP-ENV:Header/>
<ns2:Body>
<ns1:getLicense>
<dossier xsi:type="ns3:string">{1}</dossier>
<eula xsi:type="ns3:string">{eula}</eula>
$email xsi:type="ns3:string">{email}</email>
<firstName xsi:type="ns3:string">{first_name}</firstName>
<lastName xsi:type="ns3:string">{last_name}</lastName>
<companyName xsi:type="ns3:string">{company}</companyName>
<phone xsi:type="ns3:string">{phone}</phone>
<jobTitle xsi:type="ns3:string">{job_title}</jobTitle>"""
class Changes(Parameters):
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
                result = self._filter_params(result)
        except Exception:
            pass
        return result

class UsableChanges(Changes):
    pass

class ReportableChanges(Changes):
    pass

class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
        self.have = have

def compare(self, param):
    try:
        result = getattr(self, param)
        return result
    except AttributeError:
        return self.__default(param)

def __default(self, param):
    attr1 = getattr(self.want, param)
    try:
        attr2 = getattr(self.have, param)

    class Changes(Parameters):
        def to_return(self):
            result = {}
            try:
                for returnable in self.returnables:
                    result[returnable] = getattr(self, returnable)
                    result = self._filter_params(result)
            except Exception:
                pass
            return result

    class UsableChanges(Changes):
        pass

    class ReportableChanges(Changes):
        pass

    class Difference(object):
        def __init__(self, want, have=None):
            self.want = want
            self.have = have

        def compare(self, param):
            try:
                result = getattr(self, param)
                return result
            except AttributeError:
                return self.__default(param)

        def __default(self, param):
            attr1 = getattr(self.want, param)
            try:
                attr2 = getattr(self.have, param)
if attr1 != attr2:
    return attr1
except AttributeError:
    return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwars.get('module', None)
        self.client = kwars.get('client', None)
        self.want = ModuleParameters(params=self.module.params, client=self.client)
        self.have = ApiParameters(client=self.client)
        self.changes = UsableChanges()
        self.escape_patterns = r'([$"] + ")"

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = UsableChanges(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            else:
                if isinstance(change, dict):
                    changed.update(change)
                else:
                    changed[k] = change
        if changed:
            self.changes = UsableChanges(params=changed)
            return True
        return False

    def should_update(self):
        result = self._update_changed_options()
        if result:
            return True
        return False

    def exec_module(self):
        pass
changed = False
result = dict()
state = self.want.state

try:
    if state == "present":
        changed = self.present()
    elif state == "absent":
        changed = self.absent()
except iControlUnexpectedHTTPError as e:
    raise F5ModuleError(str(e))

reportable = ReportableChanges(params=self.changes.to_return())
changes = reportable.to_return()
result.update(**changes)
result.update(dict(changed=changed))
self._announce_deprecations(result)
return result

def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.client.module.deprecate(
            msg=warning['msg'],
            version=warning['version']
        )

def present(self):
    if self.exists():
        return False
    else:
        return self.create()

def remove(self):
    if self.module.check_mode:
        return True
    self.remove_from_device()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    return True

def read_dossier_from_device(self):
    result = self.client.api.tm.util.get_dossier.exec_cmd(
        'run', utilCmdArgs='-b {0}'.format(self.want.license_key)
    )
    try:
        return result.commandResult
    except Exception:
return None

def generate_license_from_remote(self):
    mgmt = iControlRestSession()
    mgmt.verify = False
    mgmt.headers = {
        'SOAPAction': '"",
        'Content-Type': 'text/xml; charset=utf-8',
    }

    for x in range(0, 10):
        try:
            resp = mgmt.post(self.want.license_url, data=self.want.license_envelope)
        except Exception as ex:
            continue

        try:
            resp = LicenseXmlParser(content=resp._content)
            result = resp.json()
        except F5ModuleError as ex:
            # This error occurs when there is a problem with the license server and it
            # starts returning invalid XML (like if they upgraded something and the server
            # is redirecting improperly.
            #
            # There's no way to recover from this error except by notifying F5 that there
            # is an issue with the license server.
            raise
        except Exception as ex:
            continue

        if result['state'] == 'EULA_REQUIRED':
            self.want.update({'eula': result['eula']})
            continue
        if result['state'] == 'LICENSE_RETURNED':
            return result
        elif result['state'] == 'EMAIL_REQUIRED':
            raise F5ModuleError("Email must be provided")
        elif result['state'] == 'CONTACT_INFO_REQUIRED':
            raise F5ModuleError("Contact info must be provided")
        else:
            raise F5ModuleError(result['fault_text'])

def create(self):
    self._set_changed_options()
    if not self.want.accept_eula:
        raise F5ModuleError("You must read and accept the product EULA to license the box.")
if self.module.check_mode:
    return True

dossier = self.read_dossier_from_device()
if dossier:
    self.want.update({'dossier': dossier})
else:
    raise F5ModuleError("Dossier not generated.")

self.create_on_device()
self.wait_for_mcpd()
if not self.exists():
    raise F5ModuleError(
        "Failed to license the device."
    )
return True

def absent(self):
    if self.any_license_exists():
        self.remove()
        self.wait_for_mcpd()
    if self.exists():
        raise F5ModuleError(
            "Failed to remove the license from the device."
        )
    return True
return False

def exists(self):
    resource = self.client.api.tm.shared.licensing.registration.load()
    try:
        if resource.registrationKey == self.want.license_key:
            return True
    except Exception:
        pass
    return False

def wait_for_mcpd(self):
    nops = 0

    # Sleep a little to let mcpd settle and begin properly
    time.sleep(5)

    while nops < 4:
        try:
            if self._is_mcpd_ready_on_device():
                nops += 1
        except Exception:
            pass
        nops += 1

    else:
nops = 0
except Exception as ex:
    pass
time.sleep(5)

def _is_mcpd_ready_on_device(self):
    try:
        output = self.client.api.tm.util.bash.exec_cmd('run',
            utilCmdArgs='-c "tmsh show sys mcp-state | grep running"'
        )
        if hasattr(output, 'commandResult'):
            return True
        except Exception as ex:
            pass
        return False

def any_license_exists(self):
    resource = self.client.api.tm.shared.licensing.registration.load()
    try:
        if resource.registrationKey is not None:
            return True
        except Exception:
            pass
    return False

def create_on_device(self):
    license = self.generate_license_from_remote()
    if license is None:
        raise F5ModuleError("Failed to generate license from F5 activation servers."
    )
    result = self.upload_license_to_device(license)
    if not result:
        raise F5ModuleError("Failed to install license on device."
    )
    result = self.upload_eula_to_device(license)
    if not result:
        raise F5ModuleError("Failed to upload EULA file to device."
    )
    result = self.reload_license()
    if not result:
        raise F5ModuleError("Failed to reload license configuration."
    )
```python
def upload_license_to_device(self, license):
    license_payload = re.sub(self.escape_patterns, r'\\\1', license['license'])
    command = """cat > /config/bigip.license <<EOF
{0}
EOF""".format(license_payload)
    command = '-c "\{0\}"'.format(command)
    self.client.api.tm.util.bash.exec_cmd('run', utilCmdArgs=command)
    return True

def upload_eula_to_device(self, license):
    eula_payload = re.sub(self.escape_patterns, r'\\\1', license['eula'])
    command = """cat > /LICENSE.F5 <<EOF
{0}
EOF""".format(eula_payload)
    command = '-c "\{0\}"'.format(command)
    self.client.api.tm.util.bash.exec_cmd('run', utilCmdArgs=command)
    return True

def reload_license(self):
    command = '-c "\{0\}"'.format("/usr/bin/reloadlic")
    self.client.api.tm.util.bash.exec_cmd('run', utilCmdArgs=command)
    return True

def remove_from_device(self):
    result = self.remove_license_from_device()
    if not result:
        raise F5ModuleError("Failed to remove license from device."
    )
    result = self.remove_eula_from_device()
    if not result:
        raise F5ModuleError("Failed to remove EULA file from device."
    )
    result = self.reload_license()
    if not result:
        raise F5ModuleError("Failed to reload the empty license configuration."
    )

def remove_license_from_device(self):
    # UtilError should be raised when non-existent file is mentioned
    try:
        self.client.api.tm.util.unix_rm.exec_cmd("run", utilCmdArgs="/config/bigip.license"
    )
    except UtilError as ex:
        if 'No such file or directory' in str(ex):
            return True
        else:
            raise F5ModuleError(str(ex))
    return True
```

def remove_eula_from_device(self):
    # UtilError should be raised when non-existent file is mentioned
    try:
        self.client.api.tm.util.unix_rm.exec_cmd('run', utilCmdArgs='/LICENSE.F5')
    except UtilError as ex:
        if 'No such file or directory' in str(ex):
            return True
        else:
            raise F5ModuleError(str(ex))
    return True

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            license_key=dict(),
            license_server=dict(
                default='activate.f5.com',
            ),
            state=dict(
                choices=['absent', 'present'],
                default='present',
            ),
            accept_eula=dict(
                type='bool',
                default='no',
            ),
        )
        self.argument_spec = dict()
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = [
            ['state', 'present', ['accept_eula', 'license_key']]
        ]

    def main():
        spec = ArgumentSpec()

        module = AnsibleModule(
            argument_spec=spec.argument_spec,
            supports_check_mode=spec.supports_check_mode,
        )
        if not HAS_F5SDK:
            module.fail_json(msg="The python f5-sdk module is required")
try:
    client = F5Client(**module.params)
    mm = ModuleManager(module=module, client=client)
    results = mm.exec_module()
    cleanup_tokens(client)
    module.exit_json(**results)
except F5ModuleError as ex:
    cleanup_tokens(client)
    module.fail_json(msg=str(ex))

if __name__ == '__main__':
    main()

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from __future__ import absolute_import, division, print_function
__metaclass__ = type

ANSIBLE_METADATA = {'metadata_version': '1.1',
    'status': ['preview'],
    'supported_by': 'certified'}

DOCUMENTATION = r'''
---
module: bigiq_regkey_license
short_description: Manages licenses in a BIG-IQ registration key pool
description: - Manages licenses in a BIG-IQ registration key pool.
version_added: 2.5
options:
    regkey_pool:
        description:
            - The registration key pool that you want to place the license in.
            - You must be mindful to name your registration pools unique names. While BIG-IQ does not require this, this module does. If you do not do this, the behavior of the module is undefined and you may end up putting licenses in the wrong registration key pool.
        required: True
    license_key:
        description:
            - The license key to put in the pool.
        required: True
        description:
description:
- Description of the license.
accept_eula:
description:
- A key that signifies that you accept the F5 EULA for this license.
- A copy of the EULA can be found here https://askf5.f5.com/csp/article/K12902
- This is required when C(state) is C(present).
type: bool
state:
description:
- The state of the regkey license in the pool on the system.
- When C(present), guarantees that the license exists in the pool.
- When C(absent), removes the license from the pool.
default: present
choices:
- absent
- present
requirements:
- BIG-IQ >= 5.3.0
extends_documentation_fragment: f5
author:
- Tim Rupp (@caphrim007)

EXAMPLES = r""
- name: Add a registration key license to a pool
  bigiq_regkey_license:
    regkey_pool: foo-pool
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    accept_eula: yes
    password: secret
    server: lb.mydomain.com
    state: present
    user: admin
  delegate_to: localhost

- name: Remove a registration key license from a pool
  bigiq_regkey_license:
    regkey_pool: foo-pool
    license_key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX
    password: secret
    server: lb.mydomain.com
    state: absent
    user: admin
  delegate_to: localhost
"

RETURN = r""
import time

from ansible.module_utils.basic import AnsibleModule

try:
    from library.module_utils.network.f5.bigiq import HAS_F5SDK
    from library.module_utils.network.f5.bigiq import F5Client
    from library.module_utils.network.f5.common import F5ModuleError
    from library.module_utils.network.f5.common import AnsibleF5Parameters
    from library.module_utils.network.f5.common import f5_argument_spec
    try:
        from library.module_utils.network.f5.common import iControlUnexpectedHTTPError
    except ImportError:
        HAS_F5SDK = False
except ImportError:
    from ansible.module_utils.network.f5.bigiq import HAS_F5SDK
    from ansible.module_utils.network.f5.bigiq import F5Client
    from ansible.module_utils.network.f5.common import F5ModuleError
    from ansible.module_utils.network.f5.common import AnsibleF5Parameters
    from ansible.module_utils.network.f5.common import f5_argument_spec
    try:
        from ansible.module_utils.network.f5.common import iControlUnexpectedHTTPError
    except ImportError:
        HAS_F5SDK = False

class Parameters(AnsibleF5Parameters):
    api_map = {
        'regKey': 'license_key'
    }

    api_attributes = [
        'regKey', 'description'
    ]

    returnables = [
        'description'
    ]

    updatables = [
        'description'
    ]
def to_return(self):
    result = {}
    try:
        for returnable in self.returnables:
            result[returnable] = getattr(self, returnable)
            result = self._filter_params(result)
    except Exception:
        pass
    return result

class ApiParameters(Parameters):
    pass

class ModuleParameters(Parameters):
    @property
    def regkey_pool_uuid(self):
        if self._values['regkey_pool_uuid']:
            return self._values['regkey_pool_uuid']
        collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s.get_collection()
        resource = next((x for x in collection if x.name == self.regkey_pool), None)
        if resource is None:
            raise F5ModuleError("Could not find the specified regkey pool.")
        self._values['regkey_pool_uuid'] = resource.id
        return resource.id

class Changes(Parameters):
    def to_return(self):
        result = {}
        try:
            for returnable in self.returnables:
                result[returnable] = getattr(self, returnable)
                result = self._filter_params(result)
        except Exception:
            pass
        return result

class UsableChanges(Changes):
    pass

class ReportableChanges(Changes):
    pass
class Difference(object):
    def __init__(self, want, have=None):
        self.want = want
        self.have = have

    def compare(self, param):
        try:
            result = getattr(self, param)
            return result
        except AttributeError:
            return self.__default(param)

    def __default(self, param):
        attr1 = getattr(self.want, param)
        try:
            attr2 = getattr(self.have, param)
            if attr1 != attr2:
                return attr1
        except AttributeError:
            return attr1

class ModuleManager(object):
    def __init__(self, *args, **kwargs):
        self.module = kwargs.get('module', None)
        self.client = kwargs.get('client', None)
        self.want = ModuleParameters(client=self.client, params=self.module.params)
        self.have = ApiParameters()
        self.changes = UsableChanges()

    def _set_changed_options(self):
        changed = {}
        for key in Parameters.returnables:
            if getattr(self.want, key) is not None:
                changed[key] = getattr(self.want, key)
        if changed:
            self.changes = UsableChanges(params=changed)

    def _update_changed_options(self):
        diff = Difference(self.want, self.have)
        updatables = Parameters.updatables
        changed = dict()
        for k in updatables:
            change = diff.compare(k)
            if change is None:
                continue
            if isinstance(change, dict):
                changed.update(change)
            else:
                if change:
                    changed[k] = change
        if changed:
            self.changes = UsableChanges(params=changed)
else:
    if isinstance(change, dict):
        changed.update(change)
    else:
        changed[k] = change
if changed:
    self.changes = UsableChanges(params=changed)
    return True
return False

def should_update(self):
    result = self._update_changed_options()
    if result:
        return True
    return False

def exec_module(self):
    changed = False
    result = dict()
    state = self.want.state

    try:
        if state == "present":
            changed = self.present()
        elif state == "absent":
            changed = self.absent()
        except iControlUnexpectedHTTPError as e:
            raise F5ModuleError(str(e))

    reportable = ReportableChanges(params=self.changes.to_return())
    changes = reportable.to_return()
    result.update(**changes)
    result.update(dict(changed=changed))
    self._announce_deprecations(result)
    return result

def _announce_deprecations(self, result):
    warnings = result.pop('__warnings', [])
    for warning in warnings:
        self.module.deprecate(
            msg=warning['msg'],
            version=warning['version'])

def present(self):
    if self.exists():
        return self.update()
    else:
def exists(self):
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        return False
    return True

def update(self):
    self.have = self.read_current_from_device()
    if not self.should_update():
        return False
    if self.module.check_mode:
        return True
    self.update_on_device()
    return True

def remove(self):
    if self.module.check_mode:
        return True
    self.remove_from_device()
    if self.exists():
        raise F5ModuleError("Failed to delete the resource.")
    return True

def create(self):
    self._set_changed_options()
    if self.module.check_mode:
        return True
    if self.want.accept_eula is False:
        raise F5ModuleError(  
            "To add a license, you must accept its EULA. Please see the module documentation for a link to this."
        )
    self.create_on_device()
    return True

def create_on_device(self):
    params = self.want.api_params()
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    resource = pool.offerings_s.offerings.create(
        status='ACTIVATING_AUTOMATIC',
        **params
    )
    for x in range(60):
resource.refresh()
if resource.status == 'READY':
    break
elif resource.status == 'ACTIVATING_AUTOMATIC_NEED_EULA_ACCEPT':
    resource.modify(
        status='ACTIVATING_AUTOMATIC_EULA_ACCEPTED',
        eulaText=resource.eulaText
    )
elif resource.status == 'ACTIVATION_FAILED':
    raise F5ModuleError(str(resource.message))
time.sleep(1)

def wait_for_status(self, resource, status):
    for x in range(60):
        resource.refresh()
        if resource.status == status:
            return
        time.sleep(1)

def update_on_device(self):
    params = self.changes.api_params()
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        return False
    resource.modify(**params)

def absent(self):
    if self.exists():
        return self.remove()
    return False

def remove_from_device(self):
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
    resource = next((x for x in collection if x.regKey == self.want.license_key), None)
    if resource is None:
        return False
    if resource:
        resource.delete()

def read_current_from_device(self):
    collection = self.client.api.cm.device.licensing.pool.regkey.licenses_s
    pool = collection.licenses.load(id=self.want.regkey_pool_uuid)
    collection = pool.offerings_s.get_collection()
resource = next((x for x in collection if x.regKey == self.want.license_key), None)
if resource is None:
    return False
result = resource.attrs
return ApiParameters(params=result)

class ArgumentSpec(object):
    def __init__(self):
        self.supports_check_mode = True
        argument_spec = dict(
            regkey_pool=dict(required=True),
            license_key=dict(required=True, no_log=True),
            description=dict(),
            accept_eula=dict(type='bool'),
            state=dict(
                default='present',
                choices=['present', 'absent']
            ),
        )
        self.argument_spec = {}
        self.argument_spec.update(f5_argument_spec)
        self.argument_spec.update(argument_spec)
        self.required_if = 
            ['state', 'present', ['accept_eula']]

    def main():
        spec = ArgumentSpec()

        module = AnsibleModule(
            argument_spec=spec.argument_spec,
            supports_check_mode=spec.supports_check_mode,
            required_if=spec.required_if
        )
        if not HAS_F5SDK:
            module.fail_json(msg="The python f5-sdk module is required")

        try:
            client = F5Client(**module.params)
            mm = ModuleManager(module=module, client=client)
            results = mm.exec_module()
            module.exit_json(**results)
        except F5ModuleError as e:
            module.fail_json(msg=str(e))
if __name__ == '__main__':
    main()

1.4 at 3.1.13 :24.el7
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This is the Debian GNU/Linux prepackaged version of the deferred execution scheduler called at.

This package was debianized by its author Thomas Koenig <ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>, and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

This may be considered the experimental upstream source, and since there doesn’t seem to be any other upstream source, the only upstream source.

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1.7 audit 2.8.4 :4.el7
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---

I've modified a (modified) version of Bill Rosenblatt's ksh debugger.
to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-------
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.cWru.EdU [129.22.4.2]) by odin.INS.CWRU.EdU with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
   id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.EdU>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
   id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
   "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

   Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

   John

On May 9, 1:36pm, Chet Ramey wrote:
   } Subject: ksh scripts
   } From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
   } Received: from odin.INS.CWRU.EdU by deepthought.armory.com id aa22336;
   }          9 May 95 10:39 PDT
   } Received: (chet@localhost) by odin.INS.CWRU.EdU (8.6.10+cwru/CWRU-2.1-ins)
   } id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
   } Date: Tue, 9 May 1995 13:36:54 -0400
   } From: Chet Ramey <chet@odin.ins.cwru.edu>
   } To: john@armory.com
   } Subject: ksh scripts
   } Cc: chet@odin.ins.cwru.edu
   } Reply-To: chet@po.cwru.edu
   } Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.EdU>
   } Read-Receipt-To: chet@po.CWRU.EdU

Open Source Used In CSCO\xplct CentOS 7.6
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site
a while back. I'd like your permission to include modified versions
of some of them in the next major bash distribution (with proper credit
given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@gnu.ai.mit.edu Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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1.13 bash-completion 2.1 :6.el7

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from bcc import BPF

class TestLicense(unittest.TestCase):
    gpl_only_text = ''
    #include <uapi/linux/ptrace.h>
    struct gpl_s {
        u64 ts;
    }
    BPF_PERF_OUTPUT(events);
    int license_program(struct pt_regs *ctx) {
        struct gpl_s data = {
            u64 ts;
        };
        data.ts = bpf_ktime_get_ns();
        events.perf_submit(ctx, &data, sizeof(data));
        return 0;
    }
    ===

    proprietary_text = ''
    #include <uapi/linux/ptrace.h>
    struct key_t {
        u64 ip;
        u32 pid;
        u32 uid;
        char comm[16];
    }
    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
        u64 ip;
        u32 pid;
        u32 uid;
        char comm[16];
    };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);

    int license_program(struct pt_regs *ctx) {
        struct key_t key = {
            u64 ip;
            u32 pid;
            u32 uid;
            char comm[16];
        };

    BPF_HASH(counts, struct key_t);
key.ip = PT_REGS_IP(ctx);
key.pid = pid & 0xFFFFFFFF;
key.uid = uid & 0xFFFFFFFF;
bpf_get_current_comm(&key.comm, 16);

val = counts.lookup_or_init(&key, &zero); // update counter
(*val)++;
return 0;
}
***

def license(self, lic):
    return 
#define BPF_LICENSE %s
""" % (lic)

def load_bpf_code(self, bpf_code):
    event_name = bpf_code.get_syscall_fnname("read")
bpf_code.attach_kprobe(event=event_name, fn_name="license_program")
bpf_code.detach_kprobe(event=event_name)

def test_default(self):
    b = BPF(text=self.gpl_only_text)
    self.load_bpf_code(b)

def test_gpl_helper_macro(self):
    b = BPF(text=self.gpl_only_text + self.license('GPL'))
    self.load_bpf_code(b)

def test_proprietary_macro(self):
    b = BPF(text=self.proprietary_text + self.license('Proprietary'))
    self.load_bpf_code(b)

def test_gpl_compatible_macro(self):
    b = BPF(text=self.gpl_only_text + self.license('Dual BSD/GPL'))
    self.load_bpf_code(b)

def test_proprietary_words_macro(self):
    b = BPF(text=self.proprietary_text + self.license('Proprietary license'))
    self.load_bpf_code(b)

@unittest.expectedFailure
def test_cflags_fail(self):
    b = BPF(text=self.gpl_only_text, cflags=['-DBPF_LICENSE=GPL'])
    self.load_bpf_code(b)

@unittest.expectedFailure
def test_cflags_macro_fail(self):
b = BPF(text=self.gpl_only_text + self.license('GPL'), cflags=['-DBPF_LICENSE=GPL'])
self.load_bpf_code(b)

@unittest.expectedFailure
def test_empty_fail_macro(self):
b = BPF(text=self.gpl_only_text + self.license(''))
self.load_bpf_code(b)

@unittest.expectedFailure
def test_proprietary_fail_macro(self):
b = BPF(text=self.gpl_only_text + self.license('Proprietary license'))
self.load_bpf_code(b)

@unittest.expectedFailure
def test_proprietary_cflags_fail(self):
b = BPF(text=self.proprietary_text, cflags=['-DBPF_LICENSE=Proprietary'])
self.load_bpf_code(b)

if __name__ == '__main__':
    unittest.main()

1.15 bind 9.9.4 :72.el7
1.15.1 Available under license :

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<![-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$/isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.16 binutils 2.27 :34.base.el7

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(This file is under construction.)*- text -*.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.

Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Version 3, 29 June 2007

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1.17 boost 1.53.0 :27.el7

1.17.1 Available under license:

Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
   #if defined(__MWERKS__)
     , aux::print_base
   +#endif
   +#endif
   {
   #if defined(BOOST_MSVC)
     enum { n = sizeof(T) + -1 }; 
   #elif defined(__MWERKS__)
     void f(int);
   +#endif
   - enum {
   -   n =
   - #if defined(__EDG_VERSION__)  
   -     aux::dependent_unsigned<T>::value > -1
   - #else
   -     sizeof(T) > -1
   - # endif
   - # endif
   - 
   +#elif defined(__EDG_VERSION__) 
     + enum { n = aux::dependent_unsigned<T>::value > -1 }; 
   +#elif defined(BOOST_GCC) 
     + enum { n1 }; 
     + enum { n2 }; 
     + enum { n = n1 != n2 }; 
   +#else 
     + enum { n = sizeof(T) > -1 }; 
   +#endif 
   |);
   
   +#if defined(BOOST_MSVC)
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Maybe this should pass?
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
/*
 *
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 *
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){ }
    private:
    split_path& operator=(const split_path&);
};
std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
       "<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"/>
       "
       "<html>
       "<head>
       "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
       "</title>
       "

Open Source Used In CSCOlxplat CentOS 7.6
"</head>"
"<body>"

"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1>"

"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os << "<A href="#" " make_link_target(licenses.first[i->first].license_name)
         "">" << licenses.first[i->first].license_name << "</a>"
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
    "<a href="#authors">Files with no recognised copyright holder</a>
    if(!m_bsl_summary_mode)
    {
        os << "Moving to the Boost Software License...
               "<a href="#bsl-converted">Files that can be automatically converted</a>
               "<a href="#to-bsl">Files that can be manually converted</a>
               "<a href="#not-to-bsl">Files that can NOT be moved</a>
               "<a href="#need-bsl-authors">Authors we need to move</a>
               "<a href="#copyright">Copyright Holder Information</a>
    }

os << "<a href="#depend">File Dependency Information</a>
    "</pre>";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:<BR>
else
    os << "The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*\#define[[:blank:]]+BOOST_VERSION[[:blank:]]+([\d+])");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "," << version % 100 << "</p>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
os << "<P>" << licenses.first[i->first].copyright << "(see details)</P>";
        ++i;
    }
// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details
 while(i != j)
 {
  // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">
  // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
    while(x != y)
    {
      os << *x << "<BR>
      ++x;
    }
os << "</P></BLOCKQUOTE>
  // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
    while(m != n)
    {
      os << split_path(m_boost_path, *m) << "<br>
      ++m;
    }
os << "</P></BLOCKQUOTE>
  }else
  {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>
  }
// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><n>
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:<P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
for(i2 = m_unknown_licenses.begin();
    j2 = m_unknown_licenses.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br><n"
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><n>
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:<P><BLOCKQUOTE><P>
for(i2 = m_unknown_authors.begin();
    j2 = m_unknown_authors.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
  // Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.
  // os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><n>
  "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:<P><n>
if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
  ...
conv_iterator i = m(converted_to_bsl.begin()),
ie = m(converted_to_bsl.end());
int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        << "/<br><tt<table border="1">
        <tr><td><tt>
        </td><tt><td>
        </td></tr>
    "<th>"i->second.first << "/</th><tt><td>
        </td><tt><td>
        </td></tr>
</table>
    "<tt><tt>>
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<</P><tt><tt>
i2 = m(can_migrate_to_bsl.begin());
j2 = m(can_migrate_to_bsl.end());
while(i2 ! = j2)
{
    os << split_path(m_boost_path, *i2) << "/</tt>
    ++i2;
}

os << "</h2><tt><tt>

// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<</P><tt><tt>
i2 = m(cannot_migrate_to_bsl.begin());
j2 = m(cannot_migrate_to_bsl.end());
while(i2 ! = j2)
{
    os << split_path(m_boost_path, *i2) << "</tt>
    ++i2;
}

os << "</h2><tt><tt>

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</p>
</PRE>

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br/>
"));

os << "</p></BLOCKQUOTE>">

// output a table of copyright information:

//

os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"|n">
std::map<std::string, std::set<fs::path, path_less>> ad, ead;
ad = m_author_data.begin();
ed = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << "|
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}

os << "</table>
```

// output file dependency information:

```cpp
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
dep = m_copy_paths.begin();
last_dep = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(), ie = m_converted_to_bsl.end();
```
while(i != ie) {
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi) {
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep) {
        while(true) {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end()) {
                os << " <I>(Circular dependency!)</I>;"
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
        os << "\n";
        ++fi;
    }
    os << "</pre></BLOCKQUOTE>\n";
    os << "</body></html>"
    if(!os) {
        std::string msg("Error writing to ");
        msg += m_dest_path.string();
        msg += ":
    }
std::runtime_error e(msg);
boost::throw_exception(e);
}
}

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation.
The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
Boost.Geometry (aka GGL, Generic Geometry Library)

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=============================================================================

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-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
    <imagedata align="left" format="GIF"
        fileref="../../../boost.png"
        alt="C++ Boost" />
</ulink>-->  
<!--hr /-->
<para>
The following is the overall license for the boost date_time
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</para>
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<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that ‘__true_type’ inherits from `boost::mpl::true_`, ‘__false_type’ inherits from `boost::mpl::false_`, and ‘__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided ‘T’ is not ‘bool’)
All the value based traits in this library conform to MPL's requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `true_type` inherits from `boost::mpl::true_`, `false_type` inherits from `boost::mpl::false_`, and `integral_constant<T, v>` inherits from `boost::mpl::integral_c` (provided `T` is not `bool`).


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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T, val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {

            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {

            };

        } // namespace container_detail
    } // namespace container
}

#endif // BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
static const bool value = C_;  
operator bool() const { return bool_.value; }
};

typedef bool_<true> true_;  
typedef bool_<false> false_;

typedef true_ true_type;  
typedef false_ false_type;

typedef char yes_type;  
struct no_type
  {
    char padding[8];
  };

template <bool B, class T = void>
struct enable_if_c
  {
    typedef T type;
  };

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
  {
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
      enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
    };

template<
  bool C,
  typename T1
struct if_c {
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2> {
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_ {
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x;  }
};
template< std::size_t S >
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template< typename T >
struct unvoid { typedef T type; };

template<>
struct unvoid<void> { struct type { }; };

template<>
struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

///////////////////////////////////////////////////////////////////////////////
// (C) Copyright Ion Gaztanaga 2005-2012.

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

#endif //BOOST_INTERPROCESS_DETAIL_MPL_HPP

///////////////////////////////////////////////////////////////////////////////
namespace boost {
namespace interprocess {
namespace ipcdetail {

    template <class T, T val>
    struct integral_constant {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_> {
        static const bool value = C_;
    };

    typedef bool_<true>        true_;
    typedef bool_<false>       false_;

    typedef true_  true_type;
    typedef false_ false_type;

    typedef char yes_type;
    struct no_type {
        char padding[8];
    };

    template <bool B, class T = void>
    struct enable_if_c {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {};

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {};

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {};

    template <class T, class U>
    class is_convertible {
    
        typedef char true_t;
    };
}
class false_t { char dummy[2]; };  
static true_t dispatch(U); 
static false_t dispatch(...); 
static T trigger();  

public:  
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t); 
};  

template<  
    bool C  
    , typename T1  
    , typename T2  
    >  
struct if_c  
{  
    typedef T1 type;  
};  

template<  
    typename T1  
    , typename T2  
    >  
struct if_c<false,T1,T2>  
{  
    typedef T2 type;  
};  

template<  
    typename T1  
    , typename T2  
    , typename T3  
    >  
struct if_  
{  
    typedef typename if_c<0 != T1::value, T2, T3>::type type;  
};  

template <class Pair>  
struct select1st  
{  
    // : public std::unary_function<Pair, typename Pair::first_type>  
    
    template <class OtherPair>  
    const typename Pair::first_type& operator()(const OtherPair& x) const  
    {  
        return x.first;  
    }  

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const  
    {  
        return x;  
    }  
}  

Open Source Used In CSCO\xp1 CentOS 7.6
// identity is an extension: it is not part of the standard.

template <class T>
struct identity
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cassert>
namespace boost {
 namespace intrusive {
 namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_>
struct bool_
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_<
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
: if_c<C,F1,F2>::type
{
};
template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
  : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
  static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
  static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
  static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{
  static const bool value = true;
};
#endif
#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())
{  static const bool value = true;  }

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  }

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  }

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  }

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl

// Open Source Used In CSCO\xplst CentOS 7.6
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };

#endif

#endif

/*template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>*/
{ static const bool value = true; };

/*template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)*/
{ static const bool value = true; };

/*template <typename R>*/
struct is_unary_or_binary_function_impl<R&>
{ static const bool value = false; };

/*template<typename T>*/
struct is_unary_or_binary_function_impl<T&>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value; }; 

//boost::alignment_of yields to 10K lines of preprocessed code, so we 
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{ 
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{ 
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{ 
    static const std::size_t value = alignment_logic 
        < sizeof(alignment_of_hack<T>) - sizeof(T) 
          , sizeof(T)  
          >::value;
};

template <typename T, typename U>
struct is_same
{ 
    typedef char yes_type;
    struct no_type
    { 
        char padding[8];
    };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};
template<typename T>
struct add_const
{  typedef const T type;  };

template<typename T>
struct remove_const
{  typedef T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
  

int i[256];
);

struct empty_helper_t2
{ int i[256]; };

public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
);

template<std::size_t S>
struct ls_zeros
{
static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

1.18 btrfs-progs 4.9.1 :1.el7
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```
## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

```
We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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1.28 coreutils 8.22 :23.el7

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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Corresponding Source fixed on a durable physical medium
customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.30 cracklib 2.9.0 :11.el7
1.30.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
>
> the original license (before moving to sourceforge -- aka, 2.7) was not
> GPL-2 ... it was a modified artistic license ... i didn't notice the license=
> =20
> change until it was mentioned in the latest notes.
>
> unlike the old license, GPL-2 prevents people from using cracklib unless th=
> eir
> applications are also GPL-2 which imo is just wrong. it isn't the place of =
> a=20
> library to dictact to application writes what license they should be using.=
> =20
> thus LGPL-2.1 enters to fill this void.
> =2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
-----------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> > the original license (before moving to sourceforge -- aka, 2.7) was
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> >20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isn't the
> > place of a
> > library to dictate to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes, go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...

-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library ‘Frob’ (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-----------------------------

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isnt the place of library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

--mike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...[mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> > On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec directly
> > and see if he wants to relicense his code as LGPL... but at this point,
> > it was released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their applications are also GPL-2 which imo is just wrong. it isnt the place of a library to dictate to application writes what license they should be using.
thus LGPL-2.1 enters to fill this void.
-mike

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

-a

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--
If it's sinful, it's more fun.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> >> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> >> >> by me.
> >>
> >> I am sympathetic. Guys, what do you reckon?
> >
> >> What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110 CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd8071010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEB6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
Any chance you could write me a self-contained email stating clearly 
that the license is being changed to GPL, so I could include that 
email 
in the repository and clean up the repository/tarballs? I have all the 
original discussion, but something succinct and self contained 
would be 
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.31 createrepo 0.9.9 :28.el7
1.31.1 Available under license :

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*
[@(#)bitstring.h 8.1 (Berkeley) 7/19/93]

1.33 crontabs 1.11 :6.20121102git.el7

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copy of the library already present on the user's computer system,
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1.35 curl 7.29.0 :51.el7
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I am not a lawyer and this is not legal advice!

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libcurl http://curl.haxx.se/docs/copyright.html

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OpenSSL http://www.openssl.org/source/license.html

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Instead.

GnuTLS  http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl  http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS   http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
1.36 cyrus-sasl 2.1.26 :23.el7

1.36.1 Available under license:

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1.38 dbus-glib 0.100 :7.el7

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1.41 device-mapper-multipath 0.4.9 :123.el7

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification").
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

  a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

  b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

  c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

  d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
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generous contributions to the wide range of software distributed
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to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

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versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
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license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either
This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,
MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its
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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.
You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb56b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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```
# This is a Makefile stub which handles the creation of BSD shared # libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
```

'echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall:: $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean:: $(RM) -rf pic $(RM) -f $(BSD_LIB) $(RM) -f ../$(BSD_LIB)

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*/
Index: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/**
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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1.55 epel-release 7 :11

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1.61 findutils 4.5.11 :6.el7

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1.63 firewalld 0.5.3 :5.el7

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.66 gawk 4.0.2 :4.el7_3.1
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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instead of to this License. (If a newer version than version 2 of the
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ':' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['COPYING',
                                'COPYING.LIB',
                                'COPYING3',
                                'COPYING3.LIB',
                                'LICENSE',
                                'fdl.texi',
                                'gpl_v3.texi',
                                'fdl-1.3.xml',
                                'gpl-3.0.xml',
                                # Skip licence files.
                                # Skip auto- and libtool-related files
                                'aclocal.m4',
                                'compile',
                                'config-guess',
                                'config-sub',
                                'depcomp',
                                'install-sh',
                                'libtool.m4',
                                'ltmain.sh'])
'itoptions.m4',
'ltstug.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'installdirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'txinfo.tex',
]

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\^f')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf

if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:0-9.,\s]\[0-9-9]*[0-9-9]

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]

        # Matches one year.
        self.year_re = re.compile ('[0-9]*')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + ']+' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (#
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright'
            '([Cc]opyright\s+\([Cc]\)])'
            '([Cc]opyright\s+%s'  # Matches %s.
            '([Cc]opyright\s+&copy;'
            '([Cc]opyright\s+\@copyright\{ })'
            '\@set\s+copyright\{w-\}+')
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*\(?\+\) ranges +\受访?\)\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s* +' +name +\受访? +name +\受访?\)\s*)'?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9]',
  re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be '\.',
self.separator = '\'

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find ('')
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find ('', index + 1)

def add_external_author (self, holder):
  self.holders[holder] = None

class BadYear():
  def __init__ (self, year):
    self.year = year

  def __str__ (self):
def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line
def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete (match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation (next_line)
                if not self.continuation_re.match (continuation):
                    break

                # Merge the lines for matching purposes.
                orig_line += next_line
                line = line.rstrip() + ' ' + continuation
                next_line = None

                # Rematch with the longer line, at the original position.
                match = self.copyright_re.match (line, match.start())
                assert match

                holder = match.group (4)

                # Use the filter to test cases where markup is getting in the way.
                if filter.by_package_author (dir, filename):
                    assert holder not in self.holders
elif not holder:
    self.errors.report(pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ' ' + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                   file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                lines.append (line)
                line = next_line

        # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        for filename in filenames:
            process_file (self, dir, filename, filter)
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
    if filter.skip_dir (dir, subdirs[i]):
        del subdirs[i]

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add" files before changing them",
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice",
            self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
if i % 3 == 0 or i == len(self dirs):
    sys.stdout.write(dir + \n')
else:
    sys.stdout.write(format % dir)
sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len(self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len(self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join(chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith(canon_dir):
                    count += 1
            self.copyright.process_tree(dir, filter)
        if count == 0:
            self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)
#--------------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
def skip_file(self, dir, filename):
    if filename.endswith('.m4'):
        pathname = os.path.join(dir, filename)
        with open(pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find('gettext-') >= 0:
                return True
        return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
        ])


def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set([[
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set([[
            # Contains markup around the copyright owner.
            'spine.xml',
        ]])

    def get_line_filter(self, dir, filename):
        if filename == 'boost_concept_check.h':

return re.compile ('// \(C\) Copyright Jeremy Siek')
return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
def __init__ (self, errors):
    Copyright.__init__ (self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)

self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
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self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
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self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
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self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
def __init__ (self):
    CmdLine.__init__ (self, GCCCopyright)
self.add_dir('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
sself.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
sself.add_dir('libgcc', LibGCCFilter())
sself.add_dir('libgfortran')
sself.add_dir('libgomp')
sself.add_dir('libiberty')
sself.add_dir('libitm')
sself.add_dir('libjava', LibJavaFilter())
sself.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
sself.add_dir('libmudflap', LibMudflapFilter())
sself.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
sself.add_dir('libobjc')
sself.add_dir('libquadmath')
# libsanitiser is imported from upstream.
sself.add_dir('libssp')
sself.add_dir('libstdc++-v3', LibStdCxxFilter())
sself.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCmdLine().main()

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Version 2.1, February 1999

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@appendixsubsec Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
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it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
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with the library after making changes to the library and recompiling
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does `Less` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers `Less` of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 */
within the context of a subclass. Some permission names may have no
actions associated with them. That is, you either have the permission
or you don't.

The most important method in this class is <code>implies</code>. This
checks whether if one has this permission, then the specified
permission is also implied. As a conceptual example, consider the
permissions "Read All Files" and "Read File foo". The permission
"Read All Files" implies that the caller has permission to read the
file foo.

<code>Permission</code>'s must be immutable - do not change their
state after creation.

@since 1.1
@status updated to 1.4

/**
 * Compatible with JDK 1.1+
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals('')))
    {
        string = string.append(' ');
    }
    string = string.append(' ');
    return string.toString();
}
package java.security.acl;

/**
 * This interface provides information about a permission that can be
* granted. Note that this is <em>not</em> the same as the class
* <code>java.security.Permission</code>.
*
* @version 0.0
*
* @author Aaron M. Renn (arenn@urbanophile.com)
*/

```java
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
    boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
    String toString();
}
```

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.
Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
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/* Definitions for BSD assembler syntax for Intel 386 */
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE)  
fprintf (FILE, "\t.space \"HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
(fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
(fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG)\
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name`. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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1.69 gdisk 0.8.10 :2.el7
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscall.list files, with the removal of syscallsthat were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
file.
* sysdeps/unix/bsd/bsd4.4/Makfile: Move to ...
* sysdeps/unix/bsd/Makfile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcssetattr.c: Move to ...
* sysdeps/unix/bsd/tcssetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1f1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makfile b/sysdeps/unix/bsd/Makfile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makfile
rename to sysdeps/unix/bsd/Makfile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd4.4/bits/socketaddr.h
rename to sysdeps/unix/bsd/bits/socketaddr.h
diff --git a/sysdeps/unix/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d35468542ac61..0000000000000000
--- a/sysdeps/unix/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
+# File nameCallerSyscall name# argsStrong nameWeak names
+
+chflags-chflags2chflags
+fchflags-fchflags2fchflags
+flock-flock2__flockflock
-getdents-getdirentries4__getdirentriesgetdirentries
-getdtsz-gettablesiz0__gettablesizgettablesiz
-getpagesize-getpagesize0__getpagesizegetpagesize
-killpg-killpg2killpg
-sigsetmask-sigblock1__sigblocksigblock
+revoke-revoke1revoke
1.75 glusterfs 3.12.2 :18.el7

1.75.1 Available under license:

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-----------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
<mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from
The `grn' preprocessor, written by Barry Roithblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditoff distribution, without AT&T code, and are in the public domain.

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/pars.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
src/include/DviChar.h
Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
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. The file `tmac/hyphen.fr' contains the same patterns as the file
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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehyphpt.tex' (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphptex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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1.84 grub2 2.02 :0.76.el7.centos
1.84.1 Available under license : 
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100

Open Source Used In CSCOlxplat CentOS 7.6
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82fc6..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+");
+
 static grub_err_t
 grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
                         int argc __attribute__ ((unused)),
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
.text
/*
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

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From 000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.

---
grub-core/loader/i386/bsd.c 8 ++++-----
include/grub/i386/netbsd_bootinfo.h 7 +++++-
ChangeLog 5 ++++
3 files changed, 20 insertions(+)
#define NETBSD_BTINFO_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
+  #define NETBSD_BTINFO_USERCONFCOMMANDS 13
+  #define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
  @ @ -146,4 +148,9 @ @ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21  Stephane Rochoy <sheda>
+
+  * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+    EFI system table.
+
+  2014-06-21  Stephane Rochoy <sheda>

 * grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

1.85 grubby 8.28 :25.el7
1.85.1 Available under license :

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SHAREDLIBCFLAGS = -fPIC
SHAREDLIBXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.%: $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.%: $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.%: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed 's/$(^\x\%!\xo :[^/]*$\x\n\> \$@; \
[-s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<" 
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's/$(^\x\%!\xo :[^/]*$\x\n\> \$@; \
[-s $@ ] || rm -f $@'
## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {<F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.92 initscripts 9.49.46 :1.el7

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* tcp_window_size.c
* by Mark Gates <mgates@nlanr.net>
* ...........................................................................
* set/getsockopt
* ........................................................................... */

=======

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* stdio.c 
* by Mark Gates <mgates@nlanr.net> 
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu> 
*------------------------------------------------------------------------------------- 
* input and output numbers, converting with kilo, mega, giga 
*------------------------------------------------------------------------------------- */

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1.99 irqbalance 1.0.7 :11.el7

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1.100 jansson 2.10 :1.el7

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1.103 kbd 1.15.5 :15.el7

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>2   byte   0       256 characters, no index
>2   byte   1       512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d

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#
0   lelong0x864ab572 psf2 screen font data
>12lelong&1  1 with Unicode index
>16lelongx%b, %d glyphs
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
  *loss of link, and correctly re-enable PHY when link is
  *re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
    * as needed. This means that data must always be copied to create
      * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
    * Fix is simple: make large buffers large enough to hold entire
      * SDU, and leave <small_buffer_data> bytes empty at the start. Then
        * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
    * buffers. This is done by 2 things:
      * 1) skb->destructor / skb->atm.recycle_buffer
          * combined, allow nicstar_free_rx_skb to be called to
            * recycle large data buffers
      * 2) skb_clone of received buffers
    * See nicstar_free_rx_skb and linearize_buffer for implementation
      * details.
*
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* M. Welsh, 6 July 1996
*
*
*/

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1.108 kmod 20 :23.el7
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# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*-' and we don’t want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/
* ([^ 
]*)( - .*)? */
', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')

    # Check a comment for boilerplate violations. Return true if the comment
    # is a license statement.
    def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
        text_seen = False
        is_license = False
        for line in comment:
            if not is_license and indicates_license(line):
                is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
            # DB2 licenses start with '/*-' and we don’t want to change them.
            if line != '' and line != '-':
                text_seen = True
        return is_license

    def check_file(lines, fname):
        # Skip emacs mode line if present.
        ln = 0
        if '-*- mode: c;' in lines[ln]:
            ln += 1
        # Check filename comment if present.
        m = re.match(r'/
* ([^ 
]*)( - .*)? */
', lines[ln])
        if m:
            if m.group(1) != fname:
                warn(fname, ln, 'Wrong filename in comment')
In += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\/*.*?\/*', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    if line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*-

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/*

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in \texttt{src/lib/gssapi}, including the following files:

\begin{verbatim}
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
\end{verbatim}
and the initial implementation of incremental propagation, including
the following new or changed files:

```python
#include <iprop_hdr.h>
#include <ipropd_svc.c>
#include <kdb/kdb_convert.c>
#include <kdb/kdb_log.c>
#include <kdb/kdb_log.h>
#include <krb5/error_tables/kdb5_err.et>
#include <slave/kpropd_rpc.c>
```

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    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
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.. parsed-literal::

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    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_credential.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.116 libcroco 0.6.12 :4.el7

1.116.1 Available under license:

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Version 2, June 1991

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675 Mass Ave, Cambridge, MA 02139, USA

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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References:
https://bugzilla.redhat.com/show_bug.cgi?id=886838

Author: Ruben Rodriguez <ruben@trisquel.info>

--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
 /*   Coded by Takuji Nishimura, considering the suggestions by  */
 /* Topher Cooper and Marc Rieffel in July-Aug. 1997.   */
 /*      */
-/* This library is free software under the Artistic license:
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-/* For the verification of the code, its output sequence file
-/* mt19937int.out is attached (2001/4/2)
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1.123 libfastjson 0.99.4 :3.el7
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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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It may happen that this requirement contradicts the license
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1.130 libmspack 0.5 :0.6.alpha.el7

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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    printf("%s",png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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1.139 libpwquality 1.2.3 :5.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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**1.144 libssh2 1.4.3 :12.el7**

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.147 libtool 2.4.2 :22.el7_3

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the “Lesser” General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.156 llvm-private 6.0.1 :2.el7
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------------

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Julian Seward, jseward@bzip.org
bzip2/libbz2 version 1.0.5 of 10 December 2007

---------------------------------------------------------------

hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !

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<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
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<tbody>
<tr>
<td>Google Test</td>
<td>llvm/utils/unittest/googletest</td>
</tr>
</tbody>
</table>
target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

  sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cegp22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {

; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246
CF246: ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248
CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select"" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
}

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// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s

@protocol NSObject
@end
@interface NSObject <NSObject> {
}
@end
@interface NSString : NSObject
@end
void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}
static NSString *_logProcessPrefix = 0;
void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@end
@interface Derived: NSObject
@end
class Derived;

NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);
@end
@interface Derived: NSObject
@end

Open Source Used In CSCOlxplat CentOS 7.6
+ (void)registerFunc:(FuncSignature *)function;  // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument
types).
    // Since registerFunc: expects a Derived object as its second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc];  // expected-warning{{incompatible pointer types sending 'NSObject *
    *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

// rdar://10751015
@protocol NSCopying @end
@interface I
    - (void) Meth : (id <NSCopying>)aKey;  // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {
    [pi Meth : ns_forward ];  // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type
        'id<NSCopying>'}}

    id <NSCopying> id_ns = ns_forward;  // expected-warning {{initializing 'id<NSCopying>' with an expression of
    incompatible type 'ForwarClass *'}}

    return id_ns;  // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type
    'ForwarClass *'}}
}

1.157 lm_sensors 3.4.0
:6.20160601gitf9185e5.el7
1.157.1 Available under license :

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
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  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.158 logrotate 3.8.6 :17.el7

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1.161 lua 5.1.4 :15.el7

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1.162 lvm2 2.02.180 :10.el7_6.2

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1.164 lzo 2.06 :8.el7

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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[This is the first released version of the library GPL. It is
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Preamble

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program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
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derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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However, unrestricted linking of non-free programs would deprive the
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included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
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interface definition files, plus the scripts used to control compilation
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Activities other than copying, distribution and modification are not
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a) The modified work must itself be a software library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Warning1681"SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.
SHOW CONTRIBUTORS;
'#------------------------------------------------------------------------------BS_STVARS_040_01---------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

--echo '#---------------------BS_STVARS_040_01----------------------#'
--echo ' # Displaying default value #'
--echo 'SELECT COUNT(@@GLOBAL.license);'
--echo '1 Expected'

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo 'Expected error 'Read only variable'
--echo 'SELECT COUNT(@@GLOBAL.license);'
--echo '1 Expected'
### BS_STVARS_040_03

Check if the value in GLOBAL Table matches value in variable

```
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
```

--echo 1 Expected

```
SELECT COUNT(@@GLOBAL.license);
```

--echo 1 Expected

```
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
```

--echo 1 Expected

### BS_STVARS_040_04

Check if accessing variable with and without GLOBAL point to same variable

```
SELECT @@license = @@GLOBAL.license;
```

--echo 1 Expected

### BS_STVARS_040_05

Check if license can be accessed with and without @@ sign

```
SELECT COUNT(@@license);
```

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR

```
SELECT COUNT(@@local.license);
```

--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR

```
SELECT COUNT(@@SESSION.license);
```

--echo Expected error 'Variable is a GLOBAL variable'

```
SELECT COUNT(@@GLOBAL.license);
```

--echo 1 Expected
--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION/license;
--echo Expected error 'Readonly variable'
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==================

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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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1.170 microcode_ctl 2.1 :47.el7

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This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

1.171 mozjs17 17.0.0 :20.el7

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  - Clock driver for JJY receivers
- Mark Andrews
  - Leitch atomic clock controller
- Bernd Altmeier
  - hopf Elektronik serial line and PCI-bus devices
- Viraj Bais
  - port to WindowsNT 3.5
- Clayton Kirkwood
  - syslog to file option
- Viraj Bais and Clayton Kirkwood
  - port to WindowsNT 3.5
- Michael Barone
  - GPSVME fixes
- Karl Berry
  - major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules
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  - Magnavox GPS clock driver
- Pietro Brooks
  - MSF clock driver, Trimble PARSE support
- Nelson Bolyard
  - update and complete broadcast and crypto features in snntp
- Jean-Francois Boudreault
  - IPv6 support
- Reg Clemens
  - Oncore driver (Current maintainer)
- Steve Clift
  - OMEGA clock driver
- Casey Crellin
  - vxWorks (Tornado) port and help with target configuration
- Sven Dietrich
  - Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- John A. Dundas III
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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Almeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snntp
11. [12]Jean-Francois Boudreau <Jean-Francois.Boudreau@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
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35. [38]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
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36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock
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55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
TrueTime clock driver
56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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Open-vm-tools v10.2.5

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
insetresuid(uid_t, uid_t, uid_t);
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
define_COMPAT_POLL_H_
define_COMPAT_POLL_H_

typedef struct pollfd {
int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNDNM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRBAND 0x0080
#define POLLWBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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 *
 */
#endif _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WEXITED
#undef WSTOPPED
#endif

#define _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WEXITED
#undef WSTOPPED
#endif
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)((int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)(!_W_INT(w) & 0377)
#define WIFSTOPPED(w)(_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1))
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
int waitpid(int, int *, int);

#ifndef HAVE_WAITPID
#endif /* !HAVE_WAITPID */

#ifndef _BSD_WAITPID_H
#endif /* _BSD_WAITPID_H */

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- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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   * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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On some systems,

diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
     .Op Fl m Ar force_file_perms
     .El
     .Pp
     On some systems,
static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
 _ATTRIB a;
  char *name;
  int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+  mode_t old_umask = 0;

  if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
      (r = sshbuf_get_u32(iqueue, &pflags)) != 0) /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
    debug3("request %u: open flags %ld", id, pflags);
  flags = flags_from_portable(pflags);
  mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+  if (permforce == 1) { /* Force perm if -m is set */
+     mode = permforcemode;
+     old_umask = umask(0); /* so umask does not interfere */
+   }
  logit("open "%s" flags %s mode 0%o",
     name, string_from_portable(pflags), mode);
  if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
               }
                                  }
+  if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
  if (status != SSH2_FX_OK)
    send_status(id, status);
  free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
      fprintf(stderr,
         "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
      " [-l log_level] [n][t-P blacklisted_requests] 
-   " [-p whitelisted_requests] [-u umask]n"
+   " [-p whitelisted_requests] [-u umask] [-m force_file_perms]n"
     " %s -Q protocol_feature\n",
    __programe, __programe);
  exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
      pw = pwcopy(argc, argv);

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2956
while (!skipargs && (ch = getopt(argc, argv, "d:f:l:P:p:Q:u:cehR")) != -1) {
    switch (ch) {
    case 'Q':
        if (strcasecmp(optarg, "requests") != 0) {
            fatal("Invalid umask \"%s\"", optarg);
        }
        break;
    case 'm':
        /* Force permissions on file received via sftp */
        +permforce = 1;
        +permforcemode = strtol(optarg, &cp, 8);
        +if (permforcemode < 0 || permforcemode > 0777 ||
            *cp != '\0' || (permforcemode == 0 &&
            +errno != 0))
            fatal("Invalid file mode \"%s\"", optarg);
        +break;
    case 'h':
        default:
        sftp_server_usage();
        This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
        Wed, 13 Jan 2010 01:08:49 +0300.

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;

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typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRD NORM 0x0040
#define POLLNORM POLLRD NORM
#define POLLWRNORM POLLOUT
#define POLLWRBAND 0x0080
#define POLLRD BAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */
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* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT *
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1.189 openssl 1.0.2k :16.el7

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1.196 pcre 8.32 :17.el7

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use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----------------------------------------------#
# Create test distribution
#-----------------------------------------------#
{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
  );

  $dist->regen;
  $dist->chdir_in;

  my $mb = $dist->new_from_context();
  isa_ok( $mb, "Module::Build" );
  is( $mb->license, 'perl',
      "license 'perl' is valid"
  );

  my $meta = $mb->get_metadata( fatal => 0 );

  is( $meta->{license} => 'perl', "META license will be 'perl'" );
  is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
      "META license URL is correct"
  );
}

{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
  );

  $dist->regen;
my $dist = new French::Cpan::Build; # Test with alpha number

# vim:ts=2:sw=2:et:sta:sts=2
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modify it under the same terms as Perl itself.

From f5488561bdab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been
tied it can die. This was resulting in leaks, because no protections
were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv
and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when
other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---

hv.c       |  6 +++++++
sv.c       |  7 +++++---
t/op/svleak.t | 22 +++++++++++++++++++++++++++++++++
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644

Open Source Used In CSCOlxplat CentOS 7.6
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);

+ENTRY;
+SAVEFREESV(hv);
+
+while (hv_max && hv_max + 1 >= hv_fill * 2)
+    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SVREFCNT_inc_simple_void_NN(hv);
+LEAVE;
 }
 hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
 Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
 return NULL;
+    /* Do this here, otherwise we leak the new SV if this croaks. */
+    SvGETMAGIC(old);
+    new_SV(sv);
-    /* SV_GMAGIC is the default for sv_setsv()
-     SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+    /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
     with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
 }

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APITest not available");
-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
}, 'tied hash iteration does not leak');
+
+leak(2,!!$Config{mad}, sub {
    eval q`
        BEGIN {
            $hhtie::explosive = 0;
            tie %^H, hhtie;
            $^H{foo} = bar;
            $hhtie::explosive = 1;
        }
    `);

+leak(2,!!$Config{mad}, sub {
    eval q`
        BEGIN {
            $hhtie::explosive = 0;
            tie %^H, hhtie;
            $^H{foo} = bar;
            $hhtie::explosive = 1;
        }
    `);

---
1.8.1.4
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<signature of Ty Coon>, 1 April 1989
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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.
"
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
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version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.199 perl-constant 1.27 :2.el7
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1.206 perl-Getopt-Long 2.40 :3.el7

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From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>
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--
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.226 polkit 0.112 :18.el7

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1.236 pyserial 2.6 :6.el7

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1.237 python 2.7.5 :76.el7

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.. _history-and-license:

*******************
History and License
*******************

History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org/ for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister

-------------

The `mod:` `random` module includes code based on a download from
The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

The source code for the :mod:`md5` module contains the following notice:

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
   http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite
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any code or documentation that is identified in the RFC as being
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
    references to Ghostscript; clarified derivation from RFC 1321;
    now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
    added conditionalization for C++ compilation from Martin
    Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard
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------------------------

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---------------

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zlib
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.242 python-chardet 2.2.1 :1.el7_1

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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.243 python-configobj 4.7.2 :7.el7
1.243.1 Available under license:
From RPM File Metadata:BSD

1.244 python-crypto 2.6.1 :15.el7
1.244.1 Available under license:
Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Previously, the copyright and/or licensing status of the Python
Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever.

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ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with
In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

### EOF ###
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

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clearer licensing regime. I am asking as many copyright holders as I can
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_Intellectual Property and Open Source: A Practical Guide to Protecting
Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.
--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
>
> ===================================================================
> Distribute and use freely; there are
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> dissemination and usage except those
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> country of residence. This
> software is provided "as is" without
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> suitability for any purpose, express
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> ===================================================================
>
> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).
>
> --amk
>
> (www.amk.ca)
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I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
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>
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> 
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- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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===================================================================


Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
> 
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> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> ==============================================================
> 
> Incorporating the code into commercial products is permitted; you do
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---

Regards,
- Dwayne

---

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

---

Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).&lt;div&gt;&lt;div&gt;I&amp;#39;d be fine with the public domain license f or PyCrypto.&lt;/div&gt;&lt;br&gt;&lt;/div&gt;&lt;div&gt;Jeethu Rao&lt;/div&gt;&lt;div&gt;PS: Apologies fo r the delay in my response.=A0&lt;/div&gt;

&lt;div&gt;I don&amp;#39;t really check this email address all that often.&lt;/div&gt;&lt;div&gt;= please direct any further correspondence to &lt;a href=3D"mailto:jeethu@jeethurao.com"&gt;jeethu@jeethurao.com&lt;/a&gt;&lt;br&gt;&lt;/div&gt;&lt;br&gt;&lt;div class=3D"gmail_quote"&gt;On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger &lt;span dir=3D"ltr"&gt;&lt;a href=3D"mailto:dlitz@dlitz.net"&gt;dlitz@dlitz.net&lt;/a&gt;&lt;/span&gt; wrote:&lt;br&gt;
Hi Jeethu,

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Regards,

Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

--000e0cd209d0e5a3d40464a23054--
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:

> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
> 
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extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.

======================================================================

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDW7mn26PTAZxMz4B
FektbDOzkxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/l+6ekJQ3juh8IPHLAduOXM9Rtgus/yR+Doaq0xOPKoBx+/5+t11LJtBcZ
wrPfEa9Oui9s=
=ZSY9
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear
on the point of whether distributing modified versions is allowed. (It
says "distribute and use", but not "modify".)

======================================================================
Distribute and use freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
===================================================================
Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a
clearer licensing regime. I am asking as many copyright holders as I can
find if I can release PyCrypto under something clearer and more standard.
Below, I have quoted a public domain dedication that was recommended in
_Intellectual Property and Open Source: A Practical Guide to Protecting
Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
Pointer, and Wim Lewis, and they have all approved the following dedication
for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your
behalf, dedicate to the public domain all your contributions to PyCrypto,
with the following notice?

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The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important
Python library.

> I understand that you have made contributions to PyCrypto. May I,
> on your behalf, dedicate to the public domain all your contributions
> to PyCrypto, with the following notice?

Absolutely yes.
Cheers,
Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSawJhnEjvBPtuXiVAQLZjgP/ceG+JdZwNvPJRfsa6rhY6+MHLDHl6agk
evkJnSJQAcVHIZnV1VeR51XgDIUMakZjU4SOV7MqkhSKA9Ilt7PaD9VSYgn3ra5
gElwl2DQDoOy5GExXMm74qrrrb1PCCbCRmpaYNo+DZohwHkeFBjwDRA3wItOrH7
SK4w9VBJItY=3D
=3DQduY
-----END PGP SIGNATURE-----
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
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> is granted a worldwide, perpetual, royalty-free, non-exclusive
> license
> to exercise all rights associated with the contents of this file
> for
In case I haven't replied to this yet: Yes, this is fine with me.

rohey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAmZ01gACgkQQQDkKvyJ6cOlVQClQmYYuVODvillLg09hCl9LAbQ
SH8AolLjgaq1li7/ZYDc+/Cd8VO0xLbr
=Mv6g
-----END PGP SIGNATURE-----

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
  id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
  preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
  id=4B2AFD82FC7D9E8383D9179F1C11B877E7804B45 (2008);
  preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

--YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

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--amk (www.amk.ca)

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- Dwayne

---20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24  928C EC13  39C2  5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkk5Z52kQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5E
yloAn33a3ZjkTeYaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)
by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
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The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk

Hi Paul,

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Open Source Used In CSCOlxplat CentOS 7.6

Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwn@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwn@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
  h=domainkey-signature:mime-version:received:in-reply-to:references
  :from:date:message-id:subject:to:content-type
  :content-transfer-encoding:
bh=A0RHBf0TnribKS5qOHIJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqkRhKHAdFKIZCBW8RbnMNVDqIPWljbyC0EvxPskaoHr3HAR96MWQNePtu/40Ac
Vn55qIQTDom4e9zIUE6EmWz09kqi/Qw0L/SLib0DIqeqNqo/eHYqPmuVswltaYwNAyMJ
Y94++76rPgzqYdALsfvsmvwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-shal; c=nofws;
d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:to
  :content-type:content-transfer-encoding:
b=jze7KS6kUGilfVCMXXaaXMi5NAAtGdMQOtVZZiTfRNyGSy68xOdp2szefiyiyig3EtgTN6v
Q3opUMst96Q6QzJZND55w446KTh2uBTNz4d3NwIeEWJnG3xcltRQu/mXFPFp8AzP3CefL
1ormJLM1eQ2XYvZA7jzemSJtfdHUcSDJ1UhgI=

MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon, 03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

That's great!

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. On your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice:

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Yes, that's fine. Good luck with the new release!

-p
--20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> 
> >> Hi Paul,
> >>
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> > Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Joris,

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Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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Regards,
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>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May  5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
> > Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> > I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
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>
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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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- Dwayne
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.2.1 2.2 2002 PSF yes
2.2.2 2.2.1 2002 PSF yes
2.2.3 2.2.2 2003 PSF yes

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Date: Wed, 27 Aug 2008 20:42:54 -0400 (EDT)
Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000); Wed, 27 Aug 2008 20:42:54 -0400
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
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User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length: 2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#
This is a proof of posting certificate from stamper.itconsult.co.uk certifying that a user claiming to be:-

dlitz@dlitz.net

requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL
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This certificate was issued at 00:45 (GMT) on Thursday 28 August 2008 with reference 0520978

CAUTION: while the message may well be from the sender indicated in the "From:" header, the sender has NOT been authenticated by this service

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http://www.itconsult.co.uk/stamper.htm

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45
1.245 python-cryptography 1.7.2 :2.el7

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1.249.1 Available under license :
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.3.2 2.3.1 2002-2003 PSF yes
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**1.260 python-lxml 3.2.1 :4.el7**

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1.261 python-markupsafe 0.11 :10.el7

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1.262 python-netaddr 0.7.5 :9.el7

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1.263 python-paramiko 2.1.1 :9.el7

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1.264 python-ply 3.4 :11.el7

1.265 python-prettytable 0.7.2 :3.el7

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1.266 python-progressbar 2.3 :4.el7
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1.267 python-pyasn1 0.1.9 :7.el7

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1.268 python-pycparser 2.14 :1.el7

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1.269 python-pycurl 7.19.0 :19.el7

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1.271 python-pyudev 0.15 :9.el7
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1.273 python-requests 2.6.0 :1.el7_1
1.273.1 Available under license :

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.279 python-urlgrabber 3.10 :9.el7
1.279.1 Available under license:

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1.280 python-urllib3 1.10.2 :5.el7
1.280.1 Available under license :
   # Contributions to the urllib3 project

   ## Creator & Maintainer

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   ## Contributors

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   * victor.vde <http://code.google.com/u/victor.vde/>
     * HTTPS patch (which inspired HTTPSConnectionPool)

   * erikcederstrand <http://code.google.com/u/erikcederstrand/>
     * NTLM-authenticated HTTPSConnectionPool
     * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

   * niphlod <niphlod@gmail.com>
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     * Response gzip and deflate encoding support
     * Better unicode support for filepost using StringIO buffers

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  * Design review, bugfixes, test coverage.

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* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>  
  * Disabled TLS compression by default on Python 3.2+  
  * Disabled TLS compression in pyopenssl contrib module  
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs  
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting  
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.281 pyxattr 0.5.1 :5.el7
1.281.1 Available under license :

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1.282 PyYAML 3.10 :11.el7

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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 *
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount 22
#define TARGET_NETBSD_NR_setuid 23
#define TARGET_NETBSD_NR_getuid 24
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_accept 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill  37
#define TARGET_NETBSD_NR_compat_43_stat  38
#define TARGET_NETBSD_NR_getppid  39
#define TARGET_NETBSD_NR_compat_43_lstat  40
#define TARGET_NETBSD_NR_dup  41
#define TARGET_NETBSD_NR_pipe  42
#define TARGET_NETBSD_NR_getegid  43
#define TARGET_NETBSD_NR_profil  44
#define TARGET_NETBSD_NR_ktrace  45
#define TARGET_NETBSD_NR_compat_13_sigaction  46
#define TARGET_NETBSD_NR_getgid  47
#define TARGET_NETBSD_NR_getid  47
#define TARGET_NETBSD_NR_compat_13_sigprocmask  48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct  51
#define TARGET_NETBSD_NR_compat_13_sigintruct  52
#define TARGET_NETBSD_NR_compat_13_sigaltstack  53
#define TARGET_NETBSD_NR_ioctl  54
#define TARGET_NETBSD_NR_compat_12_oreboot  55
#define TARGET_NETBSD_NR_revoke  56
#define TARGET_NETBSD_NR_symlink  57
#define TARGET_NETBSD_NR_readlink  58
#define TARGET_NETBSD_NR_execve  59
#define TARGET_NETBSD_NR_umask  60
#define TARGET_NETBSD_NR_chroot  61
#define TARGET_NETBSD_NR_compat_43_fstat  62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo  63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize  64
#define TARGET_NETBSD_NR_compat_12_msync  65
#define TARGET_NETBSD_NR_vfork  66
#define TARGET_NETBSD_NR_sbrk  69
#define TARGET_NETBSD_NR_sstk  70
#define TARGET_NETBSD_NR_compat_43_ommap  71
#define TARGET_NETBSD_NR_vadvise  72
#define TARGET_NETBSD_NR_munmap  73
#define TARGET_NETBSD_NR_mprotect  74
#define TARGET_NETBSD_NR_madvise  75
#define TARGET_NETBSD_NR_mincore  78
#define TARGET_NETBSD_NR_getgroups  79
#define TARGET_NETBSD_NR_setgroups  80
#define TARGET_NETBSD_NR_getpgrp  81
#define TARGET_NETBSD_NR_setpgid  82
#define TARGET_NETBSD_NR_setitimer  83
#define TARGET_NETBSD_NR_compat_43_owait  84
#define TARGET_NETBSD_NR_compat_12_oswapon  85
#define TARGET_NETBSD_NR_getitimer  86
#define TARGET_NETBSD_NR锦标  87
#define TARGET_NETBSD_NR_compat_43_othostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_orecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13 111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg 113
#define TARGET_NETBSD_NR_compat_43_osendmsg 114
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkdir 132
#define TARGET_NETBSD_NR_sendto 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_socketpair 135
#define TARGET_NETBSD_NR_mkfifo 136
#define TARGET_NETBSD_NR_rmdir 137
#define TARGET_NETBSD_NR_utimes 138
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
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#define TARGET_NETBSD_NR_compat_43_ogetrlimit 144
#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
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#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirent 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getfh 159
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 160
#define TARGET_NETBSD_NR_compat_09_osetdomainname 161
#define TARGET_NETBSD_NR_compat_09_ouname 162
#define TARGET_NETBSD_NR_sysarch 163
#define TARGET_NETBSD_NR_compat_10_osemsys 164
#define TARGET_NETBSD_NR_compat_10_omsgsys 165
#define TARGET_NETBSD_NR_compat_10_oshmsys 166
#define TARGET_NETBSD_NR_npread 167
#define TARGET_NETBSD_NR_nwrite 168
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 169
#define TARGET_NETBSD_NR_ntp_adjtime 170
#define TARGET_NETBSD_NR_setgid 171
#define TARGET_NETBSD_NR_setegid 172
#define TARGET_NETBSD_NR_seteuid 173
#define TARGET_NETBSD_NR_lfs_bmapv 174
#define TARGET_NETBSD_NR_lfs_markv 175
#define TARGET_NETBSD_NR_lfs_segclean 176
#define TARGET_NETBSD_NR_lfs_segwait 177
#define TARGET_NETBSD_NR_compat_12_stat12 178
#define TARGET_NETBSD_NR_compat_12_fstat12 179
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#define TARGET_NETBSD_NR_pathconf 181
#define TARGET_NETBSD_NR_fpathconf 182
#define TARGET_NETBSD_NR_getrlimit 183
#define TARGET_NETBSD_NR_setrlimit 184
#define TARGET_NETBSD_NR_compat_12_getdirentries 185
#define TARGET_NETBSD_NR_mmap 186
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#define TARGET_NETBSD_NR_truncate 188
#define TARGET_NETBSD_NR_ftruncate 189
#define TARGET_NETBSD_NR___sysctl 190
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#define TARGET_NETBSD_NR___syscall 193
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#define TARGET_NETBSD_NR_futimes   206
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#define TARGET_NETBSD_NR_reboot    208
#define TARGET_NETBSD_NR_poll      209
#define TARGET_NETBSD_NR_compat_14_semctl 220
#define TARGET_NETBSD_NR_semget    221
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#define TARGET_NETBSD_NR_shmdt     230
#define TARGET_NETBSD_NR_shmget    231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
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#define TARGET_NETBSD_NR_timer_gettime 238
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#define TARGET_NETBSD_NR_modctl     246
#define TARGET_NETBSD_NR__ksem_init  247
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#define TARGET_NETBSD_NR__ksem_close 250
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#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify  262
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#define TARGET_NETBSD_NR_mq_receive 264
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#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
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#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
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#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
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#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmctl13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR_lwp_create 309
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#define TARGET_NETBSD_NR_lwp_self 311
#define TARGET_NETBSD_NR_lwp_wait 312
#define TARGET_NETBSD_NR_lwp_suspend 313
#define TARGET_NETBSD_NR_lwp_continue 314
#define TARGET_NETBSD_NR_lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate 316
#define TARGET_NETBSD_NR__lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill 318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park 320
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#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
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#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks 331
#define TARGET_NETBSD_NR_sa_enable 332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
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#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR___sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl 343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "_acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "_acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "_acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "_acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "_acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "_acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "_acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "_acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "_acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "_acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "_acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "_acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", "chflags", NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)"", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)"#, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)"#, NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%#d)"#, NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s",%d, %"%s",%d,"%s")"#, NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(%"s", %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(%"s", %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, %"s", %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(%"s", %d, %"s", %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s(%"s", %d, %"s", %d, %"s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %"s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(%"s", %d, %"s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(%"s", %d, %"s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, %"s", %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(""s", %d, %"s", %d, %"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(""s", %d, %"s", %d, %"s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)"", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,""s", %d, %"s")", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftimes, "ftimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgname, "getgname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgtime, "getgtime", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%#p,%#d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%#d,\"%s\",%#x,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "trace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d, %#x, %d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s"", %p, %d)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s", "%s")", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_siganction, "siganction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sipending, "sipending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_siprocmask, "siprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigterm, "sigterm", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d,%d,%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,"%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d,%#x)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_umount, "umount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%d,%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)\n", NULL, NULL },
/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */
#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot  55
#define TARGET_FREEBSD_NR_revoke   56
#define TARGET_FREEBSD_NR_symlink  57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve   59
#define TARGET_FREEBSD_NR_umask    60
#define TARGET_FREEBSD_NR_chroot   61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync    65
#define TARGET_FREEBSD_NR_vfork    66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk     69
#define TARGET_FREEBSD_NR_sstk     70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise  72
#define TARGET_FREEBSD_NR_munmap   73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise  75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore  78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgprp 81
#define TARGET_FREEBSD_NR_setpgid  82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapoff  85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2     90
#define TARGET_FREEBSD_NR_fcntl    92
#define TARGET_FREEBSD_NR_select   93
#define TARGET_FREEBSD_NR_fsync    95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket   97
/* 98 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
    /* 111 is old sigsuspend */
    /* 112 is old sigstack */
    /* 113 is old recvmsg */
    /* 114 is old sendmsg */
    /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
    /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
    /* 129 is old truncate */
    /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
    /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
    /* 141 is old gethostname */
    /* 142 is old gethostid */
    /* 143 is old sethostid */
    /* 144 is old getrlimit */
    /* 145 is old setrlimit */
    /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
    /* 149 is old quota */
    /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old dirent */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_statnext 301
#define TARGET_FREEBSD_NR_modnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321

/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_set_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR_acl_set_link 426
#define TARGET_FREEBSD_NR_acl_delete_link 427
#define TARGET_FREEBSD_NR_acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR_umtx_lock 434
#define TARGET_FREEBSD_NR_umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_setaudit_addr 451
#define TARGET_FREEBSD_NR_thr_set_addr 452
#define TARGET_FREEBSD_NR_thr_set_name 453
#define TARGET_FREEBSD_NR_umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_aio_fsync 464
#define TARGET_FREEBSD_NR_rtprio_thread 465
#define TARGET_FREEBSD_NR_scgp_sendmsg 466
#define TARGET_FREEBSD_NR_scgp_sendmsg_iov 467
#define TARGET_FREEBSD_NR_scgp_recvmsg 468
#define TARGET_FREEBSD_NR_pread 469
#define TARGET_FREEBSD_NR_pwrite 470
#define TARGET_FREEBSD_NR_mmap 471
#define TARGET_FREEBSD_NR_lseek 472
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_facessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renateat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule  528
#define TARGET_FREEBSD_NR_rctl_remove_rule  529
#define TARGET_FREEBSD_NR_posix_fallocate  530
#define TARGET_FREEBSD_NR_posix_fadvise  531
#define TARGET_FREEBSD_NR_MAXSYSCALL    532
/*  $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $  */

/*
* System call numbers.
*
* created from;  OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_ssgpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_ioctl 58
#define TARGET_OPENBSD_NR_reve 59
#define TARGET_OPENBSD_NR_symlink 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_munmap 70
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_getpgid 82
#define TARGET_OPENBSD_NR_setpgid 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_fcntl 93
#define TARGET_OPENBSD_NR_fsmax 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_bind 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_getsockopt 103
#define TARGET_OPENBSD_NR_setsockopt 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfsioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
/* syscall flags from machine/trap */

/* OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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* /
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* OpenBSD:erno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD:erno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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*
* @(#)errno.h  8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM  1 /* Operation not permitted */
define TARGET_ENOENT  2 /* No such file or directory */
define TARGET_ESRCH   3 /* No such process */
define TARGET_EINTR   4 /* Interrupted system call */
define TARGET_EIO     5 /* Input/output error */
define TARGET_ENXIO   6 /* Device not configured */
define TARGET_E2BIG   7 /* Argument list too long */
define TARGET_ENOEXEC 8 /* Exec format error */
define TARGET_EBADF   9 /* Bad file descriptor */
define TARGET_ECHILD 10 /* No child processes */
define TARGET_EDEADLK 11 /* Resource deadlock avoided */
/* 11 was EAGAIN */
define TARGET_ENOMEM  12 /* Cannot allocate memory */
define TARGET_EACCES  13 /* Permission denied */
define TARGET_EFAULT  14 /* Bad address */
define TARGET_ENOTBLK 15 /* Block device required */
define TARGET_EBUSY   16 /* Device busy */
define TARGET.EXIST  17 /* File exists */
define TARGET.EXDEV   18 /* Cross-device link */
#define TARGET_ENODEV 19          /* Operation not supported by device */
#define TARGET_ENOTDIR 20         /* Not a directory */
#define TARGET_EISDIR 21           /* Is a directory */
#define TARGET_EINVAL 22           /* Invalid argument */
#define TARGET_ENFILE 23           /* Too many open files in system */
#define TARGET_EMFILE 24           /* Too many open files */
#define TARGET_ENOTTY 25            /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26           /* Text file busy */
#define TARGET_EFBIG 27             /* File too large */
#define TARGET_ENOSPC 28           /* No space left on device */
#define TARGET_ESPIPE 29            /* Illegal seek */
#define TARGET_EROFS 30              /* Read-only file system */
#define TARGET_EMLINK 31             /* Too many links */
#define TARGET_EPIPE 32             /* Broken pipe */

/* math software */
#define TARGET_EDOM 33               /* Numerical argument out of domain */
#define TARGET_ERANGE 34              /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK 35 EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36        /* Operation now in progress */
#define TARGET_EALREADY 37           /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38            /* Socket operation on non-socket */
#define TARGET_EDSTADDRREQ 39        /* Destination address required */
#define TARGET_EMSGSIZE 40             /* Message too long */
#define TARGET_EPROTOTYPE 41          /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42         /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43      /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44     /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45           /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46         /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47        /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48           /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49         /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50                /* Network is down */
#define TARGET_ENETUNREACH 51            /* Network is unreachable */
#define TARGET_ENETRESET 52               /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53            /* Software caused connection abort */
#define TARGET_ECONNRESET 54              /* Connection reset by peer */
#define TARGET_ENOBUFS 55                  /* No buffer space available */
#define TARGET_EISCONN 56                  /* Socket is already connected */
#define TARGET_ENOTCONN 57                 /* Socket is not connected */
#define TARGET_ESHUTDOWN     58  /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS  59  /* Too many references: can't splice */
#define TARGET_ETIMEDOUT      60  /* Operation timed out */
#define TARGET_ECONNREFUSED   61  /* Connection refused */

#define TARGET_ELOOP          62  /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG   63  /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN      64  /* Host is down */
#define TARGET_EHOSTUNREACH    65  /* No route to host */
#define TARGET_ENOTEMPTY      66  /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM       67  /* Too many processes */
#define TARGET_EUSERS         68  /* Too many users */
#define TARGET_EDQUOT         69  /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE         70  /* Stale NFS file handle */
#define TARGET_EREMOTE        71  /* Too many levels of remote in path */
#define TARGET_EBADRPC        72  /* RPC struct is bad */
#define TARGET_ERPCMISMATCH    73  /* RPC version wrong */
#define TARGET_EPROGUNAVAIL    74  /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH   75  /* Program version wrong */
#define TARGET_EPROCUNAVAIL    76  /* Bad procedure for program */

#define TARGET_ENOLCK         77  /* No locks available */
#define TARGET_ENOSYS         78  /* Function not implemented */

#define TARGET_EFTYPE         79  /* Inappropriate file type or format */
#define TARGET_EAUTH          80  /* Authentication error */
#define TARGET_ENEEDEAUTH     81  /* Need authenticator */
#define TARGET_EIPSEC         82  /* IPsec processing failure */
#define TARGET_ENOATTR        83  /* Attribute not found */
#define TARGET_EILSEQ         84  /* Illegal byte sequence */
#define TARGET_ENOMEDIUM      85  /* No medium found */
#define TARGET_EMEDIUMTYPE     86  /* Wrong Medium Type */
#define TARGET_EOVERFLOW      87  /* Conversion overflow */
#define TARGET_EECANCELED     88  /* Operation canceled */
#define TARGET_EIDRM          89  /* Identifier removed */
#define TARGET_ENOMSG         90  /* No message of desired type */
#define TARGET_ELAST          90  /* Must be equal largest errno */

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*
*   @(#)mman.h 8.2 (Berkeley) 1/9/95
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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* @(#)mman.h 8.2 (Berkeley) 1/9/95
*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

This is the software license for Capstone disassembly framework.
Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.
Thanks to the many outside volunteers who have worked under Guido's
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 ifndef TOP
 TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
 export TOP
 endif
 include $(TOP)/make.rules

 all :
 for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

 # Common targets for all subdirectories:
 clean distclean depend:
 for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

 Index: debug.c

 RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
 retrieving revision 1.1
 retrieving revision 1.3
 diff -u -u -r1.1 -r1.3
 --- debug.c 7 Sep 2007 10:01:21 -0000
 +++ debug.c 15 Jan 2008 13:49:25 -0000
 @@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
{
if (DEBUG_TRACE()) {
x86emu_dump_regs();
+if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+
x86emu_dump_xregs();
+} else {
+
x86emu_dump_regs();
+}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap

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+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF00000) >> 8;
+ reg |= (temp & 0xFF000) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}@ -1702.14 +1763.14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
DECODE_PRINTF2("PUSH%\%d\%n", imm);
TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ push_long(imm);
+ } else {
+ push_word(imm);
+ }
+ DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = target;
+ } 
    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ } 
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALT)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+        if (M.x86.intr & INTR_HALT)
+            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@ @ -2655,11 +2674,16 @@
            cmp_word((u16)val1, (u16)val2);
        }
M.x86.R_CX -= 1;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX -= 1;
else
    M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
} 
M.x86.R_DI += inc;

if (M.x86.intr & INTR_HALTED) 
    break;
}

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        + else
            M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2911,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + /* move them until (E)CX is ZERO. */
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        +if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        if (M.x86.mode & SYSMODE_PREFIX_REPE) {
            /* REPE */
            /* move them until CX is ZERO. */
-            while (M.x86.R_CX != 0) {
+            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                M.x86.R_CX -= 1;
                if (M.x86.intr & INTR_HALTED)
                    break;
            }
            M.x86.R_CX = 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX = 1;
            else
                M.x86.R_CX = 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            M.x86.R_CX = 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX = 1;
            else
                M.x86.R_CX = 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;  /* zero flag set means equal */
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            } else if (M.x86.mode & SYSMODE_32BIT_REP) {
                M.x86.R_ECX -= 1;
            } else {
                M.x86.R_CX -= 1;
            }
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break; /* zero flag set means equal */
        } else if (M.x86.intr & INTR_HALTED)
            break;
    } else if (M.x86.mode & SYSMODE_PREFIX_REP)
    /* REP */
    while ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        } else if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX -= 1;
        } else {
            M.x86.R_CX -= 1;
        }
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
        if (M.x86.intr & INTR_HALTED)
            break;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
            } else if (M.x86.mode & SYSMODE_32BIT_REP) {
                M.x86.R_ECX -= 1;
            } else {
                M.x86.R_CX -= 1;
            }
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break; /* zero flag set means equal */
        } else if (M.x86.intr & INTR_HALTED)
break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    // Code follows...
    DECODE_PRINTF("RET\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    // Code follows...
    DECODE_PRINTF("RETF\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
    RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    // Code follows...
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
    M.x86.R_IP = target;
+ } 
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:" , cs);
    DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
}
/* dont care whether REPE or REPNE */
- /* in until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* in until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
-
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODEPREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
- /* out until CX is ZERO. */
- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+ /* out until (E)CX is ZERO. */
+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R ECX : M.x86.R_CX);
while (count--) {
    single_out(size);
    M.x86.R SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODEPREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
#ifdef LINUXBIOS_VERSION
-include "io.h"
-else
-include <sys/io.h>
-endif

#define IN_MODULE
#include "xf86_ansic.h"
@ @ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE()))
printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
}

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@}
return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -&gt; %#04x \n", val, addr);

-outl(val, addr);
return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
-    M.mem_base = (int) base;
+    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
/*---------------------- Macros and type definitions ----------------------*/
-/* checks to be enabled for "runtime" */
+/* checks to be enabled for "runtime" */
 @@ -78,6 +76,8 @@
 # define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
 # define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
 # define DEBUG_TRACECALL_REGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+## define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+## define DEBUG_TRACEJMP_REGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
 # define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
 # define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
 # define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
 # define DEBUG_SYSINT() 0
 # define DEBUG_TRACECALL() 0

# define DEBUG_TRACECALLREGS() 0
++# define DEBUG_TRACEJMP()   0
++# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS()       0
# define DEBUG_MEM_TRACE() 0
# define DEBUG_IO_TRACE()  0
@@ -169,14 +171,20 @@
ex86emu_dump_regs();     
if (DEBUG_TRACECALL())   
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())									
  x86emu_dump_regs();     
if (DEBUG_TRACECALL())   
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)
+   if (DEBUG_TRACEJMPREGS())
+     x86emu_dump_regs();
+    if (DEBUG_TRACEJMP())
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif
#endif

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000

Open Source Used In CSCOlxplat CentOS 7.6
SYSMODE_SEGOVR_GS | \ 
SYSMODE_SEGOVR_SS | \ 
SYSMODE_PREFIX_DATA | \ 
- SYSMODE_PREFIX_ADDR) 
+ SYSMODE_PREFIX_ADDR | \ 
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
*/
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#ifdef DEBUG
-int check;
+ int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
#endif

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+|#include <stdio.h>
#defines printf printf(BIOS_DEBUG, x)
#endif

#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -189,6 +182,7 @@
ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
#*****************************************************************************
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# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
#*****************************************************************************/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR $?= ../..

LDFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -I/include -I/include/x86emu \ 
-I$(TOP)/clients/net-snmp/include -I$(ROOTDIR)/include \ 
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a
libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^ 
$(RANLIB) $@
clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
# ****************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
# ****************************************************************************/
#!/bin/bash
#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...
if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."
mkdir -p include/x86emu

cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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use U-Boot services by means of the jump table provided by U-Boot
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-- Wolfgang Denk

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That's all there is to it!
#include "syscall.h"

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
 * System call numbers.
 */

/*
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
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 *
 * created from FreeBSD: head/sys/kern/syscalls.master 182123 2008-08-24 21:20:35Z rwatson
 */

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#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR___sysctl 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 208
#define TARGET_FREEBSD_NR___semctl 209
#define TARGET_FREEBSD_NR_semget 210
#define TARGET_FREEBSD_NR_semop 211
#define TARGET_FREEBSD_NR_msgctl 212
#define TARGET_FREEBSD_NR_msgget 213
#define TARGET_FREEBSD_NR_msgsnd 214
#define TARGET_FREEBSD_NR_msgrcv 215
#define TARGET_FREEBSD_NR_shmat 216
#define TARGET_FREEBSD_NR_shmctl 217
#define TARGET_FREEBSD_NR_shmdt 218
#define TARGET_FREEBSD_NR_shmget 219
#define TARGET_FREEBSD_NR_clock_gettime 220
#define TARGET_FREEBSD_NR_clock_settime 221
#define TARGET_FREEBSD_NR_clock_getres 222
#define TARGET_FREEBSD_NR_ktimer_create 223
#define TARGET_FREEBSD_NR_ktimer_delete 224
#define TARGET_FREEBSD_NR_ktimer_settime 225
#define TARGET_FREEBSD_NR_ktimer_gettime 226
#define TARGET_FREEBSD_NR_ktimer_getoverrun 227
#define TARGET_FREEBSD_NR_nanosleep 228
#define TARGET_FREEBSD_NR_ntp_gettime 229
#define TARGET_FREEBSD_NR_minherit 230
#define TARGET_FREEBSD_NR_rfork 231
#define TARGET_FREEBSD_NR_openbsd_poll 232
#define TARGET_FREEBSD_NR_issetugid 233
#define TARGET_FREEBSD_NR_lchown 234
#define TARGET_FREEBSD_NR_aio_read 235
#define TARGET_FREEBSD_NR_aio_write 236
#define TARGET_FREEBSD_NR_lio_listio 237
#define TARGET_FREEBSD_NR_getdents 238
#define TARGET_FREEBSD_NR_lchmod 239
#define TARGET_FREEBSD_NR_nfstat 240
#define TARGET_FREEBSD_NR_netbsd_lchown 241
#define TARGET_FREEBSD_NR_lutimes 242
#define TARGET_FREEBSD_NR_netbsd_msync 243
#define TARGET_FREEBSD_NR_nstat 244
#define TARGET_FREEBSD_NR_nfstat 245
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrectl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kevent 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define TARGET_FREEBSD_NR___mac_get_pid  409
#define TARGET_FREEBSD_NR___mac_get_link  410
#define TARGET_FREEBSD_NR___mac_set_link  411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link  413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR___mac_exceve  415
#define TARGET_FREEBSD_NR_sigaction    416
#define TARGET_FREEBSD_NR_sigreturn    417
#define TARGET_FREEBSD_NR_getcontext   421
#define TARGET_FREEBSD_NR_setcontext   422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff       424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit      431
#define TARGET_FREEBSD_NR_thr_self      432
#define TARGET_FREEBSD_NR_thr_kill      433
#define TARGET_FREEBSD_NR___umtx_lock    434
#define TARGET_FREEBSD_NR___umtx_unlock  435
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake      443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit         445
#define TARGET_FREEBSD_NR_auditon       446
#define TARGET_FREEBSD_NR_getauuid      447
#define TARGET_FREEBSD_NR_setauuid      448
#define TARGET_FREEBSD_NR_getaudit      449
#define TARGET_FREEBSD_NR_setaudit      450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_audictctl     453
#define TARGET_FREEBSD_NR___umtx_op      454
#define TARGET_FREEBSD_NR_thr_new       455
#define TARGET_FREEBSD_NR_sigqueue      456
#define TARGET_FREEBSD_NR_kmq_open      457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_f truncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mknodat 497
#define TARGET_FREEBSD_NR_openat 498
#define TARGET_FREEBSD_NR_readlinkat 499
#define TARGET_FREEBSD_NR_renameat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $ */

/*
 * System call numbers.
 *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */
#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin 50
#define TARGET_OPENBSD_NR_acct 51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_rmpprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirent 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 205
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspiocntl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR___clock_gettime 232
#define TARGET_OPENBSD_NR___clock_settime 233
#define TARGET_OPENBSD_NR___clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_pwritev 256
#define TARGET_OPENBSD_NR_pipe 257
#define TARGET_OPENBSD_NR_fhopen 258
#define TARGET_OPENBSD_NR_preadv 259
#define TARGET_OPENBSD_NR_kqueue 260
#define TARGET_OPENBSD_NR_kevent 261
#define TARGET_OPENBSD_NR_mlockall 262
#define TARGET_OPENBSD_NR_munlockall 263
#define TARGET_OPENBSD_NR_getpeerid 264
#define TARGET_OPENBSD_NR_lchown 265
#define TARGET_OPENBSD_NR_getresuid 266
#define TARGET_OPENBSD_NR_setsresuid 267
#define TARGET_OPENBSD_NR_getresgid 268
#define TARGET_OPENBSD_NR_setsresgid 269
#define TARGET_OPENBSD_NR_mquery 270
#define TARGET_OPENBSD_NR_closefrom 271
#define TARGET_OPENBSD_NR_sigaltstack 272
#define TARGET_OPENBSD_NR_shmget 273
#define TARGET_OPENBSD_NR_semop 274
#define TARGET_OPENBSD_NR_stat 275
#define TARGET_OPENBSD_NR_fstat 276
#define TARGET_OPENBSD_NR_lstat 277
#define TARGET_OPENBSD_NR_fhstat 278
#define TARGET_OPENBSD_NR___semctl 279
#define TARGET_OPENBSD_NR___getcwd 280
#define TARGET_OPENBSD_NR_adjfreq 281
#define TARGET_OPENBSD_NR_getfsstat 282
#define TARGET_OPENBSD_NR_statfs 283
#define TARGET_OPENBSD_NR_fstatfs 284
#define TARGET_OPENBSD_NR_fhstatfs 285
#define TARGET_OPENBSD_NR_thrsigdivert 286
#define TARGET_OPENBSD_NR___getcwd 287
#define TARGET_OPENBSD_NR_adjfrefq 288
#define TARGET_OPENBSD_NR_getfsstat 289
#define TARGET_OPENBSD_NR_statfs 290
#define TARGET_OPENBSD_NR_fstatfs 291
#define TARGET_OPENBSD_NR___getcwd 292
#define TARGET_OPENBSD_NR___getcwd 293
#define TARGET_OPENBSD_NR___getcwd 294
#define TARGET_OPENBSD_NR___getcwd 295
#define TARGET_OPENBSD_NR___getcwd 296
#define TARGET_OPENBSD_NR___getcwd 297
#define TARGET_OPENBSD_NR___getcwd 298
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#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR___getcwd 305
#define TARGET_OPENBSD_NR___getcwd 306
#define TARGET_OPENBSD_NR___getcwd 307
#define TARGET_OPENBSD_NR___getcwd 308
#define TARGET_OPENBSD_NR___getcwd 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
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 * 
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp */
/* $NetBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp */

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*  
*  @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
   /* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET EINVAL            22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EROFS            30              /* Read-only file system */
/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_ENOPROTOOPT 43 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EPROTONOSUPPORT 47 /* Protocol not supported */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */
/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_EREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROPUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROPISMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */

#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */

#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_ECANCELLED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */

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*
*      @(#)mman.h     8.2 (Berkeley) 1/9/95
* /

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7


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*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/
#define TARGET_OPENBSD_MAP_INHERIT      0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

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Version 3, 29 June 2007

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS= 
ASFLAGS= -l/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -l -L/include -l/x86emu \
        -l/$(TOP)/clients/net-snk/include -l/$(ROOTDIR)/include \
        -l/$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
        -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o
%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
#
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#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check whether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007
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Juha Pirkola.
Gregory M. Christy.
The Regents of the University of California.
Carnegie Mellon University.
The Australian National University.
Now that we have the feature word arrays, we don't need to manually copy each array item, we can simply iterate through each feature word.

Signed-off-by: Eduardo Habkost <ehabkost@redhat.com>
Signed-off-by: Andreas Frber <afaerber@suse.de>
(cherry picked from commit e1c224b4eb3b8693c230bb2762a959ae1f531f76)
Signed-off-by: Eduardo Habkost <ehabkost@redhat.com>
Signed-off-by: Miroslav Rezanina <mrezanin@redhat.com>

---

```
diff --git a/target-i386/cpu.c b/target-i386/cpu.c
index d611062..010b95f 100644
--- a/target-i386/cpu.c
+++ b/target-i386/cpu.c
@@ -1755,6 +1755,7 @@ static inline void feat2prop(char *s)
 static void cpu_x86_parse_featurestr(X86CPU *cpu, char *features, Error **errp)
 {
     char *featurestr; /* Single 'key=value' string being parsed */
+ FeatureWord w;
     /* Features to be added */
     FeatureWordArray plus_features = { 0 };
     /* Features to be removed */
@@ -1844,28 +1845,11 @@ static void cpu_x86_parse_featurestr(X86CPU *cpu, char *features, Error **errp)
```

- env->features[FEAT_1_EDX] |= plus_features[FEAT_1_EDX];
- env->features[FEAT_1_ECX] |= plus_features[FEAT_1_ECX];
- env->features[FEAT_8000_0001_EDX] |= plus_features[FEAT_8000_0001_EDX];
- env->features[FEAT_8000_0001_ECX] |= plus_features[FEAT_8000_0001_ECX];
- env->features[FEAT_C000_0001_EDX] |= plus_features[FEAT_C000_0001_EDX];
- env->features[FEAT_KVM] |= plus_features[FEAT_KVM];
- env->features[FEAT_SVM] |= plus_features[FEAT_SVM];
- env->features[FEAT_7_0_EDX] |= plus_features[FEAT_7_0_EDX];
- env->features[FEAT_7_0_ECX] |= plus_features[FEAT_7_0_ECX];
- env->features[FEAT_7_0_EDX] |= plus_features[FEAT_7_0_EDX];
- env->features[FEAT_KVM] &= ~minus_features[FEAT_KVM];
- env->features[FEAT_SVM] &= ~minus_features[FEAT_SVM];
- env->features[FEAT_7_0_EBX] &= ~minus_features[FEAT_7_0_EBX];
- env->features[FEAT_7_0_ECX] &= ~minus_features[FEAT_7_0_ECX];
- env->features[FEAT_7_0_EDX] &= ~minus_features[FEAT_7_0_EDX];
- env->features[FEAT_XSAVE] &= ~minus_features[FEAT_XSAVE];
  +
  for (w = 0; w < FEATURE_WORDS; w++) {
  +  env->features[w] |= plus_features[w];
  +  env->features[w] &= ~minus_features[w];
  +  }

out:
  return;
@@ -1974,6 +1958,7 @@ static void cpu_x86_register(X86CPU *cpu, const char *name, Error **errp)

CPUX86State *env = &cpu->env;
x86_def_t def1, *def = &def1;
+ FeatureWord w;

memset(def, 0, sizeof(*def));

@@ -1992,21 +1977,12 @@ static void cpu_x86_register(X86CPU *cpu, const char *name, Error **errp)

object_property_set_int(OBJECT(cpu), def->family, "family", errp);
object_property_set_int(OBJECT(cpu), def->model, "model", errp);
object_property_set_int(OBJECT(cpu), def->stepping, "stepping", errp);
- env->features[FEAT_1_EDX] = def->features[FEAT_1_EDX];
- env->features[FEAT_1_ECX] = def->features[FEAT_1_ECX];
- env->features[FEAT_8000_0001_EDX] = def->features[FEAT_8000_0001_EDX];
- env->features[FEAT_KVM] = def->features[FEAT_KVM];
- env->features[FEAT_SVM] = def->features[FEAT_SVM];
- env->features[FEAT_7_0_EDX] = def->features[FEAT_7_0_EDX];
- env->features[FEAT_XSAVE] = def->features[FEAT_XSAVE];
- env->features[FEAT_8000_0001_ECX] = def->features[FEAT_8000_0001_ECX];
- object_property_set_int(OBJECT(cpu), def->xlevel, "xlevel", errp);
- env->features[FEAT_KVM] = def->features[FEAT_KVM];
- env->features[FEAT_SVM] = def->features[FEAT_SVM];
- env->features[FEAT_C000_0001_EDX] = def->features[FEAT_C000_0001_EDX];
- env->features[FEAT_7_0_EBX] = def->features[FEAT_7_0_EBX];
- env->features[FEAT_7_0_EDX] = def->features[FEAT_7_0_EDX];
- env->features[FEAT_XSAVE] = def->features[FEAT_XSAVE];
- env->cpuid_xlevel2 = def->xlevel2;
- object_property_set_str(OBJECT(cpu), def->model_id, "model-id", errp);
+ for (w = 0; w < FEATURE_WORDS; w++) {
+   env->features[w] = def->features[w];
+ }

X86CPU *cpu_x86_create(const char *cpu_model, DeviceState *icc_bridge,
--
1.8.3.1
From 4a988f436f785fa9349ba66a0d44e26b94f75af Mon Sep 17 00:00:00 2001
Message-Id: <4a988f436f785fa9349ba66a0d44e26b94f75af.1389014116.git.minovotn@redhat.com>
In-Reply-To: <c8cc35838d42aa286c72772d97e3a9be7bb786ba.1389014116.git.minovotn@redhat.com>
References: <c8cc35838d42aa286c72772d97e3a9be7bb786ba.1389014116.git.minovotn@redhat.com>
From: Paolo Bonzini <pbonzini@redhat.com>
Date: Mon, 9 Dec 2013 14:09:21 +0100
Subject: [PATCH 33/50] block/iscsi: updated copyright

RH-Author: Paolo Bonzini <pbonzini@redhat.com>
Message-id: <1386598178-11845-36-git-send-email-pbonzini@redhat.com>
Patchwork-id: 56072
O-Subject: [RHEL 7.0 qemu-kvm PATCH 35/52] block/iscsi: updated copyright
Bugzilla: 1007815
RH-Acked-by: Jeffrey Cody <jcody@redhat.com>
RH-Acked-by: Fam Zheng <famz@redhat.com>
RH-Acked-by: Stefan Hajnoczi <stefanha@redhat.com>

From: Peter Lieven <pl@kamp.de>

added myself to reflect recent work on the iscsi block driver.

Signed-off-by: Peter Lieven <pl@kamp.de>
Signed-off-by: Paolo Bonzini <pbonzini@redhat.com>
Signed-off-by: Stefan Hajnoczi <stefanha@redhat.com>
(cherry picked from commit 2af8a1a704a352bab2e9eaf803db0b3552e826d0)
---
block/iscsi.c | 1 +
1 file changed, 1 insertion(+)

Open Source Used In CSCOlxplat CentOS 7.6
Signed-off-by: Michal Novotny <minovotn@redhat.com>
---
block/iscsi.c | 1 +
1 file changed, 1 insertion(+)

diff --git a/block/iscsi.c b/block/iscsi.c
index c5cd86d..7ae61f9 100644
--- a/block/iscsi.c
+++ b/block/iscsi.c
@@ -2,6 +2,7 @@
/* QEMU Block driver for iSCSI images */
*
/* Copyright (c) 2010-2011 Ronnie Sahlberg <ronniesahlberg@gmail.com> */
+/* Copyright (c) 2012-2013 Peter Lieven <pl@kamp.de> */
*
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--
1.7.11.7

1.285 qrencode 3.4.1 :3.el7
1.285.1 Available under license:

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.289 rsync 3.1.2 :4.el7
1.289.1 Available under license :

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:
a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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### 1.296 sg3_utils 1.37 :17.el7

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The following people have worked to translate sudo into other languages:

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1.306 sysfsutils 2.1.0 :16.el7

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure
layouts and accessors, and small macros and small inline functions (ten
lines or less in length), then the use of the object file is unrestricted,
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linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the
work (which must be distributed under Sections 1 and 2 above); and, if
the work is an executable linked with the Library, with the complete
machine-readable "work that uses the Library", as object code and/or
source code, so that the user can modify the Library and then relink to
produce a modified executable containing the modified Library. (It is
understood that the user who changes the contents of definitions files
in the Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library.
A suitable mechanism is one that (1) uses at run time a copy of the
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properly with a modified version of the library, if the user installs
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c) Accompany the work with a written offer, valid for at least three
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distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.307 sysstat 10.1.5 :17.el7

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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<signature of Ty Coon>, 1 April 1990
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/
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DAMAGE.

Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
---------  -------  ------  ------  ------  -------
__ts_dev__  0       0  0      0   0     DOS (Empty)

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
---------  -------  ------  ------  ------  -------
__ts_dev__  2048   4095  1024   83    Linux

-------------------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
---------  -------  ------  ------  ------  -------
__ts_dev__  2048   4095  1024   83    Linux
__ts_dev__  4096  20479  8192  a5     FreeBSD

-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
#   start  end   size   fstype  [fsize bsize   cpg]
c:  4096  20479  16384  unused     0     0

d:  0     16064  16065  unused     0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start  end   size   fstype  [fsize bsize   cpg]
a:  4096  6144   2049   4.2BSD     0     0     0
c:  4096  20479  16384  unused     0     0
d:  0     16064  16065  unused     0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused   5   4.1BSD   9   4.4LFS   d   boot
1  swap   6   Eighth Edition  a  unknown  e  ADOS
2  Version 6   7  4.2BSD  b  HPFS  f  HFS
3  Version 7   8  MS-DOS  c  ISO-9660  10  AdvFS
4  System V

BSD disklabel command (m for help):
1.320 vim 7.4.160 :5.el7

1.320.1 Available under license:

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Arnaud LE HORS     BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Internet:  lehors@sophia.inria.fr
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Voice phone:  (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
*uganda.txt*   For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL   by Bram Moolenaar
SUMMARY

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.icf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

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2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.
   The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*KCC* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now
under the supervision of Pacific Academy Outreach Society. The centre is
visited about once a year to check the progress (at our own cost). I have
visited the centre myself many times, starting in 1993. The visit reports are
on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html
World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
if version < 600
   " Remove any old syntax stuff hanging around
   syn clear
elseif exists("b:current_syntax")
      finish
endif

   " Product specification files are case sensitive
   syn case match

   syn keyword psfObject bundle category control_file depot distribution
   syn keyword psfObject end file fileset host installed_software media
   syn keyword psfObject product root subproduct vendor

   syn match  psfUnquotString +[^# ][^#]+ contained
   syn region psfQuotString  start=+" " skip=+\" end=+"+ contained

   syn match  psfObjTag    "\[-+A-Z0-9a-z]+\[-+A-Z0-9a-z]+\)+" contained
   syn match  psfAttAbbrev  "\{fa|fr|[aclqrv]\}<\|>|<=|>=|==\)+\)+" contained
   syn match  psfObjTags   "\[-+A-Z0-9a-z]+\[-+A-Z0-9a-z]+\)+\)+\)+" contained
   syn match  psfNumber    "\d+" contained
   syn match  psfFloat     "\d+\.\d+" contained
   syn match  psfLongDate  "\d{8}\d{2}" contained

   syn keyword psfState    available configured corrupt installed transient contained
   syn keyword psfPState   applied committed superseded contained
   syn keyword psfBoolean  false true contained

   "Some of the attributes covered by attUnquotString and attQuotString:
   " architecture category_tag control_directory copyright
   " create_date description directory file_permissions install_source
   " install_type location machine_type mod_date number os_name os_release
   " os_version pose_as_os_name pose_as_os_release readme revision
   " share_link title vendor_tag
   syn region psfAttUnquotString matchgroup=psfAttrib start=--[^s]*[^# ]+\s+[^# ]-- rs=e-1 contains=psfUnquotString.psfComment end=-- "$ ~ keepend one line

   syn region psfAttQuotString matchgroup=psfAttrib start=--[^s]*[^# ]+\s+[^# ]-- rs=e-1 contains=psfQuotString.psfComment skip=--"~ matchgroup=psfQuotString end=-- "$ ~ keepend

   " These regions are defined in attempt to do syntax checking for some
   " of the attributes.
Define the default highlighting.
For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn’t have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
let did_psf_syntax_inits = 1
command -nargs=+ HiLink hi link <args>
else
command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject Statement
HiLink psfAttrib     Type
HiLink psfQuotString String
HiLink psfObjTag      Identifier
HiLink psfAttAbbrev   PreProc
HiLink psfObjTags     Identifier

HiLink psfComment     Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"

1.321 virt-what 1.18 :4.el7
1.321.1 Available under license :
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Version 2, June 1991

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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
 A single update notice (for instance, a security fix).

- def __init__(self, elem=None):
+ def __init__(self, elem=None, repoid=None, vlogger=None):
    self._md = {
        'from'   : '',
        'type'   : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
 if elem:
     self._parse(elem)
+
 self._repoid = repoid
 self._vlogger = vlogger
+
 def __getitem__(self, item):
     """ Allows scriptable metadata access (ie: un['update_id']). """
     if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
 # Tests to see if it's "the same data", which means that the
 # packages can be different (see add_notice).
+
 def _rid(un):
+    if hasattr(un, '_repoid') and un._repoid is not None:
+        return un._repoid
+    else:
+        return '<unknown>'
+
 def _log_failure(data):
+    """Log the mismatched data similarly to conflict markers in git."""
+    if self._vlogger is None:
+        return
+    msg = _('Duplicate of %s differs in some fields:
    """
    msg %= other._md['update_id']
    msg += '<<<<<<< %s:
    msg += '%s': %r
    msg += '>>>>>>> %s
    # --verbose mode enables this
+    self._vlogger.log(logging.DEBUG_3, msg)
@@ -113,6 +134,7 @@ class UpdateNotice(object):
     if data == 'status': # FIXME: See below...
         continue
     if self._md[data] != other._md[data]:
+        _log_failure(data)
         return False

 # FIXME: Massive hack, Fedora is really broken and gives status=stable
 # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
     data = 'status'
     if self._md[data] != other._md[data]:
         if self._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
             return False
         if other._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
             return False
     # They are both really "stable" ...
     self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
             except UpdateNoticeException, e:
                 msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
             if self._vlogger:
+                msg += _("If you are the owner, consider re-running the same command with --verbose to see the'
+                          'exact data that caused the conflict.")
                 have_dup = True
             if self._vlogger:
                 self._vlogger.warn("%s", msg)
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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
         except Errors.RepoMDError:
             continue # No metadata found for this repo
+
+        self.arch_storage = ArchStorage()
+        self.archlist = self.arch_storage.archlist
+
     def get_notices(self, name=None):
         """ Return all notices. """
         if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
             name = oldpkgtup[0]
             arch = oldpkgtup[1]
             ret = []
+            other_arch_list = []
+            notices = set()
+            for notice in self.get_notices(name):
+                for upkg in notice['pkglist']:
+                    other_arch = False
+                    if pkg['name'] != name or pkg['arch'] != arch:
+                        continue
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = True
+                        else:
+                            continue
+                    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                              pkg['version'], pkg['release'])
+                    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                        continue
-                    ret.append((pkgtup, notice))
+                    if other_arch:
+                        other_arch_list.append((pkgtup, notice))
+                    else:
+                        ret.append((pkgtup, notice))
+                        notices.add(notice)
+            for pkgtup, notice in other_arch_list:
+                if notice not in notices:
+                    ret.append((pkgtup, notice))
+            ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
+            return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors

import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

1.329 yum-metadata-parser 1.1.4 :10.el7
1.329.1 Available under license :
    From RPM File Metadata:GPLv2

1.330 yum-utils 1.1.31 :50.el7
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1.331 zip 3.0 :11.el7

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